



HD Video Conference System

Catalogue V.23

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* Specifications are subject to change without notice.



Company Introduction

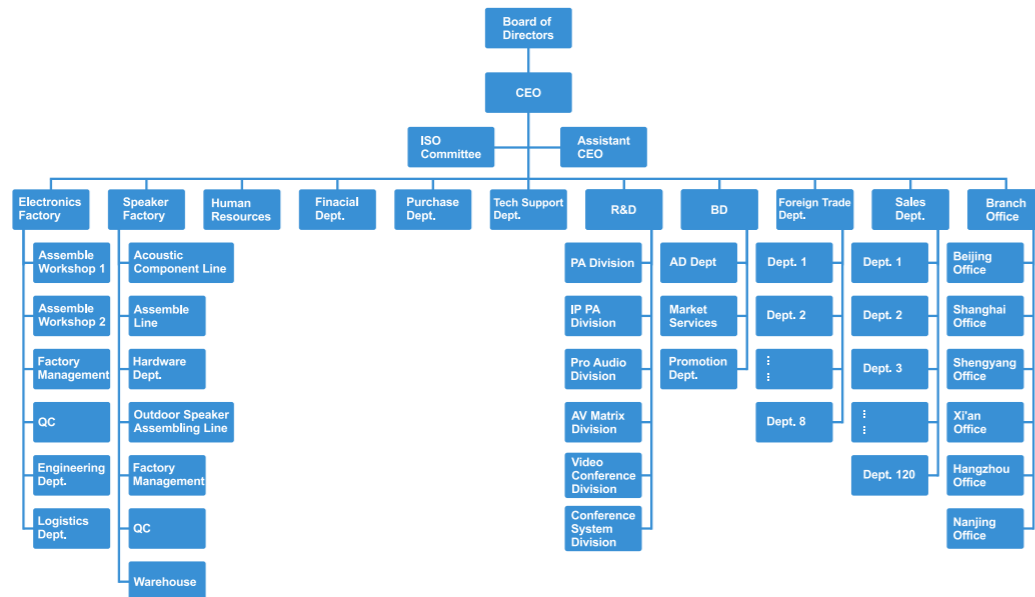
Guangdong Baolun Electronics Co., LTD. (ITC) was established in 1993, located in Panyu district of Guangzhou. ITC is the No.1 and the largest integrated supplier of audiovisual & lighting systems, integrating R&D, production, sales and service together in China for more than 30 years. ITC owns 4 office buildings, 6 R&D centers and 5 factories. There is also an industry-leading intelligent manufacturing industrial park of over 300,000 square meters under construction, which is expected to be put into operation by the end of 2023. We have 1200 R&D engineers, 2000 pre-sales and after-sales technicians, 142 sales departments, all totally more than 6000 employees.

ITC can provide integrated solution from PA system, IP intercom system, Voice evacuation system, HD video conference system, 5G digital conference, Paperless conference, Interpretation system, Central control system, Professional sound system, LED screen, Stage light & Architectural light, etc. We are the official supplier for important events, including 2008 Beijing Olympic Games, 2010 Shanghai World Expo, 2010 Guangzhou Asian Games, 2016 Hangzhou G20 Summit, 2016 Turkey expo, 2022 Beijing Winter Olympics, India subway, USA chain shops, Guyana national conference, Uzbekistan national defense conference, Five Nigeria national airport, CBE Ethiopia bankOur worldwide successful projects are more than 1.5 million cases, and itc products have been exported to more than 100 countries around the world.

All of our products are developed and manufactured by ourselves. Our products are compliant with CE, RoHS, EN54, UL, CCC, NOM certificate.

ITC possesses more than 3000 intellectual properties, including appearance patents, software copyrights, utility model patents and invention patents, and has won the honorary titles of "Quality Product", "Famous Brand" and "Most Competitive Brand" for many years. ITC is the "High-tech Enterprise" in China.

Company Organization



Our Production Lines

A group of highest technology equipment are used to strengthen the reliability and output capacity: SMT machine, reflow oven & numerical control cutting machine. 95% PCB of the equipments are made by SMT machine to ensure quality consistency and higher reliability. The numerical cutting machines enhance the equipment in elaborate & elegant level. A comprehensive process of tests are be involved: drop test, vibration test, aging, Hipot & RoHS test.

Certificates:

CCC, ISO9001, CE & RoHS, IEC60914. Parts of our product are complied with certificates: CB, SASO, ETL, UL, FCC, EN54-16 and EN54-24. Parts of loudspeakers are certified by waterproof, dustproof, fire-proof & explosion-proof.



Office



R&D



Factory



Factory



Showroom



Exhibitions



minar





Product Brief

ITC-TV series HD video conference communication system can provide high-definition video terminal, HD terminal with MCU function, cellphone mobile terminal, PC mobile terminal etc. A complete system has the features of high-definition, low-bandwidth, security and stability, interoperability and large-capacity access etc. It satisfy the purpose of office worldwide corporation, zero distance communication when in business trip, telemedicine, distance education and visual emergency scenarios etc. It could help the intelligent communication and efficient decision-making of enterprises.



Product Characteristics

Cloud Based Architecture

Adopt Cloud based architecture, with distributed MCU. The meeting still can run normally even though there is any MCU broken or stop working, as long as there is still one MCU working.

Support H.264 (HighProfile) Codec Technology

Support H.264 (HighProfile) codec technology, the video precision has been improved twice than common H.264 codec, it provides 1080P/60 full HD video screen, which is the highest quality standard in the industry. More clear and smoother, lost no subtle expression, easy to experience the extraordinary realistic, tiny details, into the extremely HD "horizon". Efficient compression efficiency and save the bandwidth of more than 30%, only 1M bandwidth can realize the dynamic 1080P video transmission. Even if the deployment in ADSL network, it can also achieve HD video communication applications.

Super Low Bandwidth

Adopt H.264 (HighProfile) codec technology, provide HD display experience and save 50% bandwidth, only 2M to run 1080P@60, 1M to run 1080P@30, 512K to run 720P, 64k make the continuous picture and sound, can automatically adapt to the real time bandwidth, to help to greatly lower the bandwidth cost and overall cost.

Super Adaptability

With unique intelligent algorithm, integrated with H.264SVC codec technology and super strong error correction ERC, which can reduce video quality influence of network jitter and packet lost (no audiovisual effect when packet loss is less than 20%), to make sure the good video and audio frequency effect, it has the good network adaptability and safety. With real-time monitoring of the network bandwidth, automatically adjust the resolution and frame rate to guarantee the fluency of conference.

Top 48KHZ Hi-fi Sound Quality, First-grade Audio Experience

Adopt OPUS HD audio codec protocol and standard, including the unique audio solution, which can provide top 48KHZ HI-FI stereo sound effect, clear, natural, real sound, to provide users with first-grade audio experience. Adopt the industry advance sound codec engine and resisted packet loss technique to offer the clear and influent sound feeling like the running water, even under the bad network environment. Support automatic AN, AGC, AEC, ANC, etc. multiple sound processing functions, to eliminate the noise caused by the conference environment, conference equipment or human, and it will AGC according to the noise high-low to provide the HI-FI audio effect.

HD Slideshow

Through the secondary stream to clearly and smoothly shared Word"Excel"PowerPoint and other documents, play all kinds of multimedia contents. Main/secondary stream resolution can achieve 1080P/60 effect. It is more professional to use full HD quality slideshow of well-prepared in training, speech, and so on.

Multi-code Stream Technique, Support Multi-terminal Input

Support Multi-code stream technique, which can code to have different resolution and frame code stream, to make remote HD video hard terminal, desktop software terminal, panel APP, cellphone APP, etc different types of terminals to acquire video code stream automatically, to proceed HD/standard mixing, soft and hard combining, mobile terminals participating in multi-meeting dispatch command application.

Support Mixed Speed & Protocol Application

Support mixed speed & protocol application, which can support different speed, video protocol, audio protocol, video resolution conference to join in the same conference.

Support GK Paging

Support GK module paging; effectively solve the paging establishment between internal and external network terminals; with paging processing function; taking advantage of H.225.0 and H.245 for paging establishment, capability exchange, paging maintenance and call ending etc.

Integrated Design

Terminal and MCU is intergrated perfectly, it can connect with terminal directly without MCU, the single terminal can support 4 sides conference (1080P) .

Easy Operation and Controlling

New conference frame UI design, menu operation interface, simple design, one-key to enter in the parallel sessions, easy to use, no need to allocate professional operation person.

Multiple Interactive Mode

Support standard H323 & SIP dual protocol to achieve the conference terminal, IP Camera, video telephone, Windows user side, IOS/Android video conference APP, etc. easy and multiple audio video terminals fuse ability to meet different occasion video conference needs.

Video Recording

MCU is built-in video collection, recording and bunch playing modules. It can collect code 1080P HD video and record the conference frame to restore, which is built-in big capacity hard disk to meet user long-time conference recording needs.

Multi-picture Display

Single screen support a maximum of 16 pictures display, provide a variety of display screen template free for the user to choose. Support voice excitation, multi-screen polling, support 16:9 and 4:3 mixed image display, compatible with different output display equipment. Pattern of conference Support appointment, instant meetings, chairman mode. It has director mode, called mode, conference room patterns and other conference model. Different bandwidth, protocol, resolution video can access the same venue, it can access the various venues at the highest flexibility.

Redundant Backup

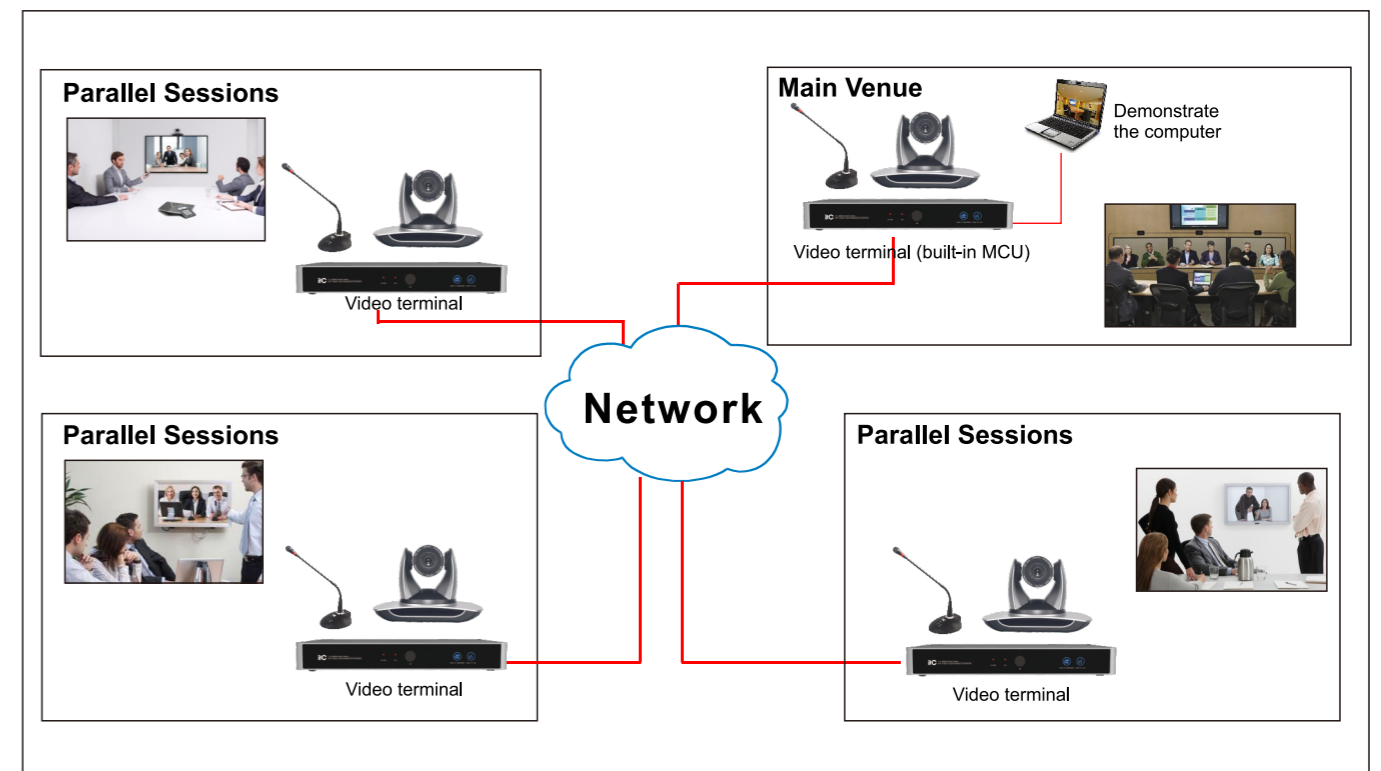
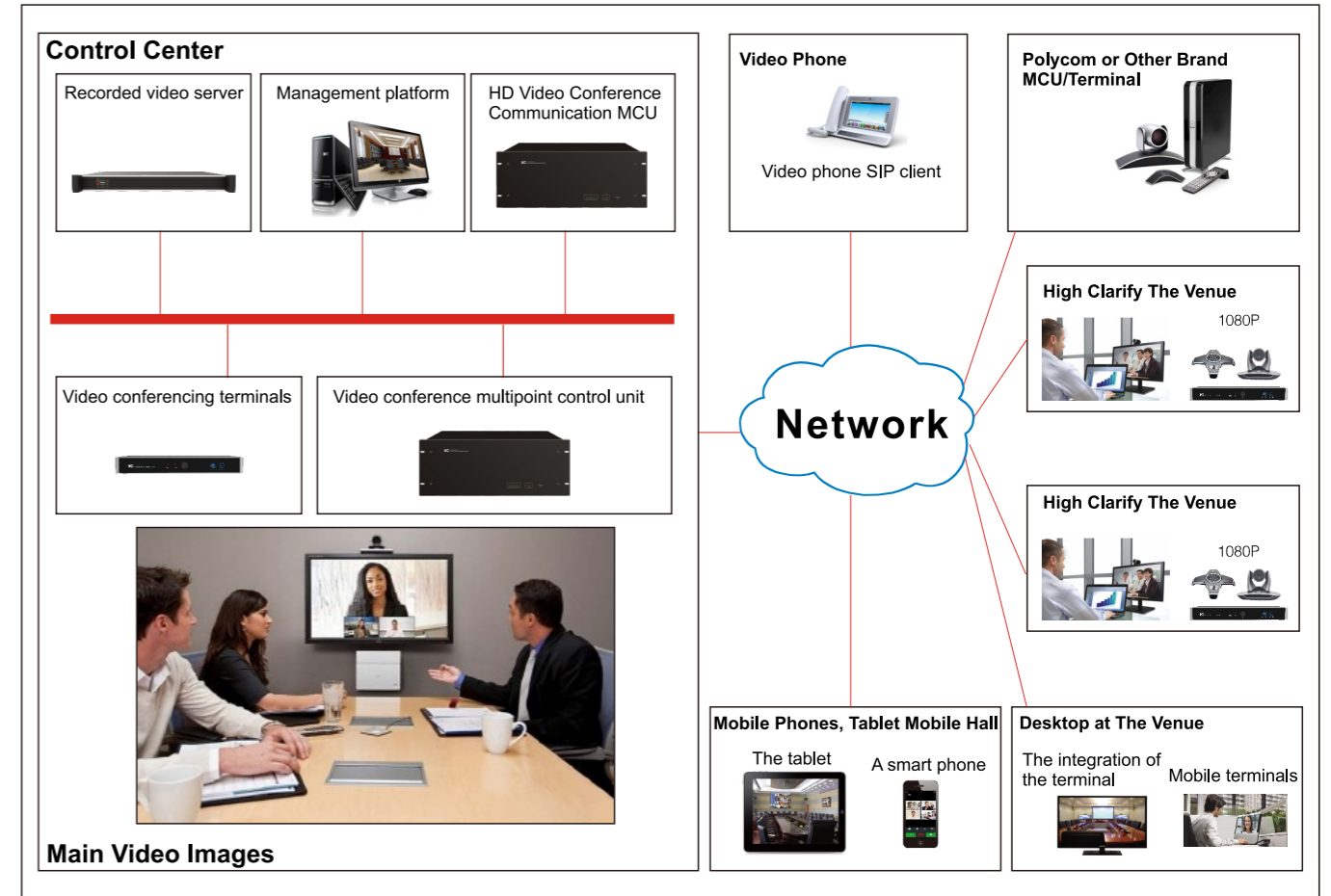
HD video conference communication multi-point control unit (MCU) supports dual power redundant backup, hot plug, dual network card intelligent backup, to make the venue business recover automatically.

Achieve Monitoring Platform Fusion

Support RTSP video code streams pushing to mix with monitoring platform together, to push conference video frames to the monitoring system.

The Compatibility With The Third Party Video System

Support H.323, SIP etc international common transmission protocol, it can seamless joint and interflow through ITC video conference gateway, parallel to mainstream brand MCU, video terminal and videophone, to achieve multi-brand video system integration and fusion interaction to meet your dilatation needs of original video conference.



Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.08 VCS8000 (Specification B8C4)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 4 groups of physical conferences, 8 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 4 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 8 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth,

- without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen live broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.
- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.

Specification

Model	VCS8000
Capacity	8 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.08

VCS8000 (Specification B8C4D)



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Feature

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- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
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broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

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- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	8 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0℃~35℃ (working state) -40℃~55℃ (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.08

VCS8000 (Specification B8C6)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 8 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	8 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.08

VCS8000 (Specification B8C6D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 8 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	8 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16 VCS8000 (Specification B16C4)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 4 groups of physical conferences, 16 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 4 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 8 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	16 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16

VCS8000 (Specification B16C4D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 4 groups of physical conferences, 16 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 4 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 8 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	16 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16

VCS8000 (Specification B16C6)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 16 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	16 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16

VCS8000 (Specification B16C6D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 16 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	16 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16

VCS8000 (Specification B32C4)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 4 groups of physical conferences, 32 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 4 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 8 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	32 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.16

VCS8000 (Specification B32C4D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign same permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 4 groups of physical conferences, 32 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 4 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 8 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 4 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	32 channels
Concurrent conference	4 groups of physical conferences
Card board quantity	3 cards: 2 resource cards and 1 network card
Video output	8 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification B32C6)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 32 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual network port backup, any network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	32 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification B32C6D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 32 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	32 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	484*530*176mm
Weight	15.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification P48C6)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 48 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, dual network port backup, any power port and network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	48 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	21.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification P48C6D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 48 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	48 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	21.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification P48C10)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 48 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, dual network port backup, any power port and network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	48 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	25.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.32

VCS8000 (Specification P48C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 48 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	48 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	25.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.64

VCS8000 (Specification P64C6)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 64 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.

- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.
- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, dual network port backup, any power port and network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	64 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	21.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.64

VCS8000 (Specification P64C6D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 6 groups of physical conferences, 64 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 6 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 12 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.

- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 6 1080P conferences with 64 split-screen multi-screen live broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.
- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	64 channels
Concurrent conference	6 groups of physical conferences
Card board quantity	4 cards: 3 resource cards and 1 network card
Video output	12 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	21.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.64

VCS8000 (Specification P64C10)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 64 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, dual network port backup, any power port and network port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.

Specification

Model	VCS8000
Capacity	64 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	22.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.64

VCS8000 (Specification P64C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 64 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	64 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	496×484×220mm
Weight	22.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.64

VCS8000 (Specification P96C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 96 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	96 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	558×484×220mm
Weight	23.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.120

VCS8000 (Specification P128C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 128 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	128 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	558×484×220mm
Weight	23.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.120

VCS8000 (Specification P160C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 160 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.

- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	160 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	558×484×220mm
Weight	23.5Kg

Video Conference Controller

Embedded software: HD video conference MCU embedded software V1.120

VCS8000 (Specification P200C10D)



Description

The new-generation server integrates CMS, CRS, MCU, GK, live broadcast, and storage services. It adopts a plug-in module design and supports HD resolution, bringing the ultimate remote video conference experience.

Feature

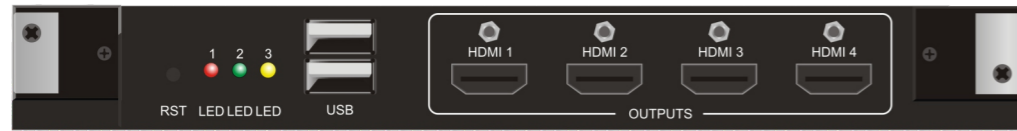
- * Standard cabinet structure, using professional domestic audio and video codec chips, carrier-grade plug-in design, support 7*24 hours of continuous work.
- * Adopt B/S architecture, support management through the built-in web, support Chinese and English language; support hierarchical and decentralized management functions; assign different permissions to different levels of users.
- * Support ITU-T H.323 and IETF SIP protocols; devices that are compatible with H.323, SIP, RTSP and other protocols can join the conference together; support good compatibility.
- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution; support 4K30fps video resolution.
- * Support H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codecs protocol, the sound quality is up to 48KHz.
- * Support intelligent mixed speed, mixed protocol and mixed format functions, allowing terminals with different rates, different protocols and different video formats to access the conference at the same time.
- * Support the display of the server's CPU usage and memory usage by day, week, month, year and other time lengths in the form of graphs; support real-time statistics and display of the online number of terminal devices and conference details (including the number of conferences, conference names, conference status, conference duration, etc.) in the form of graphs.
- * A single machine supports 10 groups of physical conferences, 200 channels of 1080P concurrent users, and 20 concurrent virtual conferences.
- * Support MCU cascading function, cascading mode can support more than 1000 users joining the conference; support forming MCU resource pool, MCU distributed architecture, realize unified management of MCU resources, dynamic allocation of MCU resources, and mutual backup.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * The virtual conference mode supports all terminals sending auxiliary streams at the same time (supports N terminals in the same conference sending N auxiliary streams at the same time), and supports mixed images of mainstream auxiliary streams; when supporting the main video 1080p60fps, the auxiliary video can achieve 1080p60fps HD effect at the same time.
- * Support 19 multi-screen layouts, each screen has up to 64 images; support Auto split screen function; auxiliary stream images can be synthesized into multiple images; the image window supports functions such as automatic filling, voice excitation, video polling, auxiliary stream display, etc. Support watching the real-time video of the conference directly on the same interface.
- * Support multi-screen polling function, support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen polling capabilities; specify polling window, polling venue, polling time interval, etc.
- * Support watching the real-time video of the conference directly on the conference control interface; support the function of previewing the screen snapshot of the conference site, and save it to the server as a jpg image.
- * The built-in GK module supports the terminal to register the E.164 extension number and use the E.164 extension number to call each other. Support NAT, H.460 and other technologies, support passing through the firewall.
- * The built-in conference recording module can record and store multiple conference videos and audios in real time; support a maximum of simultaneous 10 1080P conferences with 64 split-screen multi-screen recording capabilities.
- * The server comes standard with 240G of storage space (about 200G of user space), which is used to store data files such as voting, sign-in, roll call, shared files, recorded videos, and photos of video conferences; it supports expansion of storage capacity to 4TB.
- * Support video roll call function, you can set the roll call theme, screen layout, main venue, main venue display window, and roll call venue display window. After the roll call is completed, an excel form of the complete roll call result can be downloaded and saved.
- * Support the function of broadcasting site. In the broadcasting site mode, the conference layout is switched to the mode where only the site being broadcast is displayed, and all the sites can only view the screen of the site being broadcast.
- * Support RTSP video stream access to equipment, support monitoring IP cameras directly accessing the conference through RTSP video stream, and seamlessly connecting with the monitoring platform.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 20 HDMI video output interfaces.
- * Support video wall output HDMI interface hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support classified management of conference media resources, including voting information, sign-in information, roll call information, shared files, recording videos, and photos.
- * Support network ping test, route trace test, network bandwidth test on the background web management interface; support real-time display of audio, mainstream, auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support FEC forward error correction function. When reaching 30% network packet loss, the sound is clear and continuous, and the video is clear and smooth, without lag or mosaic; when reaching 80% network packet loss, the sound is clear and smooth and can be accurately understood.
- * Support live broadcast function, support RTMP, HLS live broadcast mode; support up to simultaneous 10 1080P conferences with 64 split-screen multi-screen live

- broadcast capabilities; you can freely select one venue in the conference or a synthetic media stream as the live broadcast source, and can switch the live broadcast source at any time; support mobile phones and other devices watching live broadcasts by scanning the code. During the live broadcast, text chat can be performed, and the chat content can be automatically saved to the server.
- * Support the browser or player access to the live link address to watch the conference live broadcast, and support live broadcast accessing the password management function; a single machine supports a maximum of 500 concurrent live broadcasts, and the number of viewers can be viewed through background management.
- * Support setting conference password, conference control password and administrator password; support AES 256-bit dynamic encryption algorithm and H.235 video conference encryption standard to ensure the security of the conference.
- * Provide a complete API development manual for the system. You can use the API to invoke the system functions to schedule a conference, get the conference list, stop a conference, delete a conference, call offline members, set the watch content, set recording, set live broadcast, set polling, adjust camera, send scrolling messages, set banners, switch screen layouts, control the speech of each venue, etc. Support seamlessly integrating with third-party systems.
- * The conference notification method supports text message or email; corresponding notification messages can be set for conference convening, conference change, and conference cancellation.
- * Support Chinese and English subtitles, banners, scrolling messages, and display of conference venue names, meet the auxiliary display function of conferences.
- * Support all conference terminals sending dual streams and watching multiple auxiliary streams at the same time.
- * Support video soft terminal access to the conference, and realize the dual-stream function of data; support functions such as electronic whiteboard, voting, and conference sign-in. The soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet.
- * Supports intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After notification encoding is activated, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the sending bit rate and resolution of the MCU according to the packet loss and delay of the sending signal.
- * Support rich audio processing mechanisms and management modes; support lip synchronization, intelligent multi-channel mixing, echo cancellation, automatic gain, noise cancellation, and venue speech management; support automatic mute function after joining a conference; the background management terminal supports all mute, all speak, all silent function, etc.
- * Support intelligent multi-channel audio mixing, support broadband voice above 20KHz.
- * Supports the voice excitation control mode, and the site with the loudest speech automatically switches to the specified voice excitation window for display.
- * The virtual conference supports the chairman-controlled conference mode and free mode. In this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * When scheduling conferences, you can select the conference media type as pure audio or audio+video.
- * Support the function of re-invite at conference site breakpoint; when always invite is selected, after the terminal is abnormally disconnected, the MCU will re-invite the terminal to join the conference every 10 seconds until the terminal joins the conference. When limited invitation is selected, the number of invitations needs to be preset. If the invitation exceeds the preset number, the MCU will not invite anyone. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support moving up, down, left, right, and zooming operations of the terminal cameras through the background remote control.
- * Support the function of setting and displaying the name of the conference site; set whether to display the name of all the conference sites and the display position, font color, background color and font size of the name in the conference screen.
- * Support the banner function, you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function, send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support conference time extension, conference closure, auto-fill, layout switching, audio reception, audio transmission, video reception, video transmission, video adjustment, information query, roll call, hang up/call, and group management for ongoing conferences, designated viewing screen and other conference management functions.
- * Adopt Chinese and English management interface; realize Chinese and English WEB management; realize device management, user management, conference management through Web; support Telnet, ssh and other remote maintenance methods; conduct zone management according to user characteristics and regional characteristics.
- * Support integrating with voice transcription system, transmit the conference audio to the voice transcription system and transcribe it into text. The voice transcription system then transmits the transcribed text back to the MCU, and the MCU can superimpose the returned text on the synthesized screen for display.
- * Support log management function, you can choose to enable different levels of log management such as debugging, information, warning, error, fatal error, etc.
- * Support monitoring system hardware functions, including CPU usage, memory usage, disk usage, etc.
- * Support remote control and remote upgrade functions.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the settings of parameters such as QOS, NAT, and H.245 tunnels.
- * Support the function of virtual conference room. The system can independently allocate virtual conference rooms for individual users, and can convene multi-party conferences without platform reservation; when there are no venues to join the virtual conference room, it does not occupy port resources.
- * Support dual power backup, any power port failure will not affect the normal operation of the device; support board backup, when a single board fails, the MCU switches the data and services on the single board to another within 8 seconds, without affecting the conference, meet the 7 * 24 hours of continuous normal work.
- * Support the establishment of resource pools to achieve unified management of MCU and support dual-system hot backup function. When one MCU fails, the terminal can automatically connect to another MCU within 15 seconds, and the conference automatically resumes.
- * Support batch upgrade of terminal device software versions, and the upgrade time can be customized. No need to upgrade the devices one by one through other tools; the terminal can be automatically upgraded when it is turned on.
- * Support device management, operation and maintenance functions; modify the configuration of manageable devices, such as name, call bandwidth, audio and video devices, registration and network; view the IP address, MAC address, registration status, version information of the terminal.
- * Support dual networks, support connecting to any two networks, so that terminals in the two networks can join the same conference at the same time.

Specification

Model	VCS8000
Capacity	200 channels
Concurrent conference	10 groups of physical conferences
Card board quantity	6 cards: 5 resource cards and 1 network card
Video output	20 HDMI ports
Power supply	100VAC~240VAC 50Hz~60Hz
Network port	2 RJ45 standard network ports, 100M/1000M
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	558×484×220mm
Weight	23.5Kg

Codec Board VCS-P3536



Description

It can be used with the video conference controller. It features low latency and low bandwidth.

Feature

- * A single card supports 2-channel physical conference rooms, and supports up to 32-channel 1080P concurrent users.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support multi-screen, common multiple multi-screen layouts, up to 64 images per screen; support automatic split screen.
- * Support TV wall output function, directly output HDMI 4K signal onto the large screen; a single card supports up to 4 channels of video output.

Specification

Model	VCS-P3536
Video output	4*HDMI
Video standard	Support H.263+, H.264 Highprofile, H.264 SVC, H.265
Video resolution	QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P, 4K (VCS)
Double stream protocol	H.239 digital dual stream technology
Double stream video	XGA, 720P, 640*480, 1280*1024, 1080P, 4K (VCS)

UHD 4K Codec Card VCS-P3559A



Description

The new generation of UHD 4K codec card supports H.265 4K30fps codec, realizes up to 64 split-screen decoding, and adopts the plug-in module design, bringing the ultimate remote video conference experience.

Feature

- * Support codec bandwidth rate 64Kbps-8Mbps; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P, 4K30fps video resolution.
- * Support 19 multi-screen layouts, with up to 64 images per screen.
- * The built-in video wall output function can output the composite images of different conferences, and can also choose to output a single image of any venue of different conferences, and supports 4 HDMI video output ports.
- * Support video wall output HDMI port hot-plug board detection function, identify the board connected to the HDMI cable when scheduling a conference, and designate the board to be used for conferences.
- * Support superimposing venue names, banners, scrolling messages, or transcribed text during encoding.
- * Support 2 groups of concurrent standard conferences with a maximum of 64 split screens.
- * Support system upgrade and update through 2 USB ports.

Specification

Model	VCS-P3559A
Split screen capability	64 split screens
Concurrent conference	2 groups of physics conferences
Codec capability	Support up to H.265 4K30fps
Video output	4 HDMI ports
Power supply	12V DC
Network port	2 RJ45 standard network ports, 100M/1000M
USB port	2 USB2.0 ports
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Dimension	200*200*20mm
Weight	150g

HD Video Conference System Software V1.0 B8CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 8-channel 1080P concurrent users, support 20 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), WeChat connection, etc., and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue, and set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.



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Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 16-channel 1080P concurrent users, support 20 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players access to the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code, and text chat is supported during the conference live broadcast).
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue, and set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.

HD Video Conference System Software V1.0 B32CR

Feature

- * Support 64Kbps-8Mbp bandwidth rates; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 32-channel 1080P concurrent users, support 20 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code, and text chat is supported during the conference live broadcast).
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue, and can set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewall to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.



HD Video Conference System Software V1.0 P48CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 48-channel 1080P concurrent users, and support 100 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue; set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.

HD Video Conference System Software V1.0 P64CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 64-channel 1080P concurrent users, and support 100 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue; set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.



HD Video Conference System Software V1.0 P96CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 96-channel 1080P concurrent users, and support 100 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue; set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.

HD Video Conference System Software V1.0 P128CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 128-channel 1080P concurrent users, and support 100 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect.
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal.
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue; set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.

HD Video Conference System Software V1.0

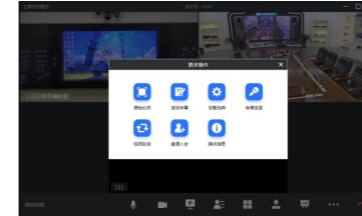
P160CR

Feature

- * Support 64Kbps-8Mbps bandwidth rate; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P video resolution.
- * Support H.264, H.264 MP, H.264 HP, H.265 video codec protocol, support G.711A, G.711U, G.722, iLBC, G.722.1, G.722.1C, OPUS_16K, OPUS_24K, OPUS_48K and other audio codec protocols, the sound quality is up to 48KHz.
- * Support 160-channel 1080P concurrent users, and support 100 concurrent virtual meetings.
- * Support H.239 digital dual-stream technology, both main and auxiliary streams can reach 1080P.
- * Support VCS protocol. VCS conference mode supports all terminals to send auxiliary streams at the same time (support N terminals in the same meeting to send N auxiliary streams at the same time), support mainstream auxiliary stream mixed screen; support main video 1080p60fps, auxiliary video at the same time achieve 1080P60fps HD effect .
- * Support screen polling function. It can specify polling window screen, polling venue, polling times, etc.
- * Support the broadcast venue function. In the broadcast venue mode, the meeting layout is switched to a mode that only displays the broadcast venue, and all the venues can only watch the screen of the broadcast venue.
- * The VCS conference mode supports data conference functions such as electronic whiteboard, electronic voting, conference sign-in, and file sharing.
- * Support network ping test, route tracking test, network bandwidth test, on the background web management interface; support real-time display of audio, mainstream, and auxiliary stream network status, including packet loss rate, code stream, frame rate, delay and other parameters.
- * Support browsers or players to access the live broadcast link address to watch the conference live broadcast, and supports the live broadcast access password management function; the number of live broadcast viewers is not limited by the number of concurrent sessions, and the number of viewers can be checked through background.
- * You can directly join the conference through the conference number, QR code, and WeChat link without registration. Support mobile phones and other devices to watch the conference live broadcast by scanning the code (QR code), and text chat is supported during the conference live broadcast.
- * The meeting password, meeting control password, and administrator password can be set; it supports AES 128-bit dynamic encryption algorithm and H.235 video meeting encryption standard to ensure the security of the meeting.
- * The meeting notification method supports notification by SMS or email. The corresponding notification message can be set for meeting holding, meeting change, and meeting cancellation; for the mobile APP client, the APP message notification push function is supported.
- * Support Chinese and English subtitles, banners, scrolling messages, and display the name of the venue to meet the auxiliary display function of the meeting.
- * Support FEC forward error correction function, when the data packet loss rate is less than 20% and is not continuous packet loss, the picture will not appear blurred or severely mosaic.
- * Support video soft terminal access to the meeting, and realize the data dual-stream function, in the VCS mode, it can also support electronic whiteboard, voting, meeting sign-in and other functions; the soft terminal can be installed on Windows or MAC computer version, IOS or Android mobile phone tablet terminal .
- * Support intelligent flow control functions, including notification encoding and automatic bit rate adjustment functions. After the notification encoding is started, the MCU will automatically adjust the encoding parameters of the terminal according to the window size displayed on the MCU by the terminal. After the automatic bit rate adjustment function is activated, the MCU will automatically adjust the encoding parameters of the terminal. It can automatically adjust the encoding rate of the MCU according to the packet loss and delay of the transmitted signal.
- * Support the automatic mute function when joining the conference, and the background management terminal supports all mute, all speech functions.
- * Support voice activation control mode. When the terminal speaks, the width of the screen in the screen layout is distinguished by different colors to remind that the conference venue is speaking.
- * VCS conference supports the chairman control conference mode, free mode; in this mode, the chairman terminal can realize functions such as conference management and screen layout.
- * Support audiovisual coding selection function, can realize audiovisual synchronous coding or pure audio coding.
- * Support the function of re-invitation at the venue breakpoint; when always invite is selected, the MCU will re-invite the terminal to join the meeting every 10 seconds after the terminal is abnormally disconnected, until the terminal joins the meeting. When selecting limited invitation, you need to set the number of invitations. If the number of invitations exceeds the set number, the MCU will no longer invite. If you choose not to invite, the MCU will not actively invite the terminal to join the conference after the terminal is abnormally disconnected.
- * Support the background remote control terminal's camera to move up, down, left, and right, focus, and zoom.
- * Support the function of setting and displaying the name of the conference venue; set whether to display the name and display position, font color, background color, font size, and font transparency of all conference venues on the conference screen.
- * Support the banner function. You can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, background color and transparency of the banner.
- * Support scrolling message function. You can send scrolling messages, and you can set whether to enable scrolling messages and the font size, font color, background color, transparency, and scrolling times of the scrolling messages.
- * Support conference management functions such as extending the meeting time, ending the meeting, appointing the chairman venue, auto-filling, switching layout, audio receiving, audio sending, video receiving, video sending, video adjustment, information query, depriving the chairman, hanging up/calling, group management of conference venues and designated viewing screens.
- * Chinese and English management interface. It can realize Chinese and English WEB management, which is in line with Chinese usage habits; realize device management, user management, and conference management through Web.
- * Support remote control and remote upgrade function.
- * Support hierarchical user permission management, assign different management and use permission to different users.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols; support the ability to cross routers and firewalls to ensure system security; support the setting of QOS, NAT, H.245 tunnels and other parameters.

Video Conference Terminal Media Software V2.0

NT90-PC01



Feature

- * Support ITU-T H.323 standard protocol, excellent compatibility.
- * Support QCIF, CIF, 4CIF, 720P, 1080P video resolution (the maximum video resolution of the soft terminal is the maximum supported resolution of the used USB camera).
- * Support H.264, H.264HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record function module.
- * Support common functions such as template switching and chairman control.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on the terminal, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live mode and meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout

Description

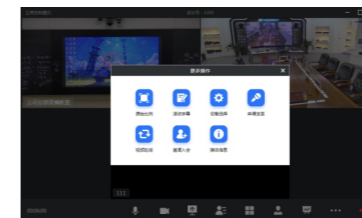
Support standard H.323/VCS protocol, support H.264HP codec, support FHD 1080p/30 video conference; support integrated address book and call record module.

according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.

- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other digital conference functions to meet the application requirements of remote training, teaching and other scenes.
- * Support multi-screen layout, and a single screen supports simultaneous display of 25 channels.
- * Support echo suppression function, providing a great user experience.
- * Support voice priority, support Qos strategy.
- * Installed on the PC computer of the windows system platform, it supports access to USB camera devices.
- * Support text chat when watching live broadcast, support sending and receiving emoticons.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

Video Conference Terminal Media Software V2.0

NT90-MC01



Feature

- * Support ITU-T H.323 standard protocol, with excellent compatibility.
- * Support QCIF, CIF, 4CIF, 720P, 1080P video resolution (the maximum video resolution of the soft terminal is the maximum supported resolution of the used USB camera).
- * Support H.264, H.264HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record function module.
- * Support common functions such as template switching and chairman control.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on the terminal, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live mode and meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout

Description

Support standard H.323 protocol, support H.264HP codec, support FHD 1080p/30 video conference; support integrated address book, and call record module.

according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.

- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other digital conference functions to meet the application requirements of remote training, teaching and other scenes.
- * Support multi-screen layout, and a single screen supports simultaneous display of 25 channels.
- * Support echo suppression function, providing a great user experience.
- * Support voice priority, support Qos strategy.
- * Installed on the PC computer of the Apple MAC system platform, it supports access to USB camera devices.
- * Support text chat when watching live broadcast, support sending and receiving emoticons.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

Android Tablet HD Video Conference Software V3.2 NT90-APad01AC



Description

Support standard H.323 protocol, support H.264 HP codec, support HD 1080P video conference; integrated address book, call record module.

Feature

- * Support ITU-T H.323 standard protocol and has good compatibility.
- * Support QCIF, CIF, VGA, 720P, 1080P video resolution.
- * Support H.264, H.264 HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record module.
- * Support common functions such as template switching and speech application.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.

iPad HD Video Conference Software V3.2 NT90-iPad01SC



Description

Support standard H.323 protocol, support H.264 HP codec, support HD 1080P video conference; integrated address book, call record module.

Feature

- * Support ITU-T H.323 standard protocol and has good compatibility.
- * Support QCIF, CIF, VGA, 720P, 1080P video resolution.
- * Support H.264, H.264 HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record module.
- * Support common functions such as template switching and speech application.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting

- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support automatic paging for opening the video screens of all venues, each page has up to 4 split screens, and you can slide left and right to switch between different pages to watch different videos. The auxiliary screen sent by the venue will be displayed on a single page in full screen. You can click the shortcut key or slide left and right to switch to the full-screen auxiliary stream.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines.
- * Support the function of sending auxiliary streams, and the screens can be shared in the form of auxiliary streams.
- * Support echo cancellation, noise suppression and other functions, bringing a good user experience.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other functions to meet the needs of remote training, teaching and other scenes.
- * With excellent device compatibility, support joining the meeting on WIFI, 4G, and 5G networks.
- * Support text chat and sending/receiving emoticons when watching live broadcast.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

- supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
 - * Support automatic paging for opening the video screens of all venues, each page has up to 4 split screens, and you can slide left and right to switch between different pages to watch different videos. The auxiliary screen sent by the venue will be displayed on a single page in full screen. You can click the shortcut key or slide left and right to switch to the full-screen auxiliary stream.
 - * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines.
 - * Support the function of sending auxiliary streams, and the screens can be shared in the form of auxiliary streams.
 - * Support echo cancellation, noise suppression and other functions, bringing a good user experience.
 - * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
 - * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other functions to meet the needs of remote training, teaching and other scenes.
 - * With excellent device compatibility, support joining the meeting on WIFI, 4G, and 5G networks.
 - * Support text chat and sending/receiving emoticons when watching live broadcast.
 - * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.
 - * Support the terminal console function, connect the terminal through the network to control the terminal (non-web control), and realize functions such as modifying audiovisual protocols and other configurations, scheduling a meeting, viewing the meeting list, and joining the meeting.
 - * Support the MCU console function, connect the MCU through the network to control the MCU (non-web control), and realize functions such as scheduling a meeting, viewing the meeting list, controlling the speech permission, and adjusting the screen layout.

Android Mobile HD Video Conference Software V2.0 NT90-APP01AC



Description

Support standard H.323 protocol, support H.264 HP codec, support HD 1080P video conference; integrated address book, call record module.

Feature

- * Support ITU-T H.323 standard protocol and has good compatibility.
- * Support QCIF, CIF, VGA, 720P, 1080P video resolution.
- * Support H.264, H.264 HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record module.
- * Support common functions such as template switching and speech application.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.

iPhone HD Video Conference Software V2.0 NT90-APP01SC



Description

Support standard H.323 protocol, support H.264 HP codec, support HD 1080P video conference; integrated address book, call record module.

Feature

- * Support ITU-T H.323 standard protocol and has good compatibility.
- * Support QCIF, CIF, VGA, 720P, 1080P video resolution.
- * Support H.264, H.264 HP video codec protocol, support G.711, G.722, OPUS and other audio codec protocols.
- * Integrated address book, call record module.
- * Support common functions such as template switching and speech application.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.

- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support automatic paging for opening the video screens of all venues, each page has up to 4 split screens, and you can slide left and right to switch between different pages to watch different videos. The auxiliary screen sent by the venue will be displayed on a single page in full screen. You can click the shortcut key or slide left and right to switch to the full-screen auxiliary stream.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines.
- * Support the function of sending auxiliary streams, and the screens can be shared in the form of auxiliary streams.
- * Support echo cancellation, noise suppression and other functions, bringing a good user experience.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other functions to meet the needs of remote training, teaching and other scenes.
- * With excellent device compatibility, support joining the meeting on WIFI, 4G, and 5G networks.
- * Support text chat and sending/receiving emoticons when watching live broadcast.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support switching between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support automatic paging for opening the video screens of all venues, each page has up to 4 split screens, and you can slide left and right to switch between different pages to watch different videos. The auxiliary screen sent by the venue will be displayed on a single page in full screen. You can click the shortcut key or slide left and right to switch to the full-screen auxiliary stream.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines.
- * Support the function of sending auxiliary streams, and the screens can be shared in the form of auxiliary streams.
- * Support echo cancellation, noise suppression and other functions, bringing a good user experience.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Support meeting sign-in, electronic whiteboard, electronic voting, file sharing and other functions to meet the needs of remote training, teaching and other scenes.
- * With excellent device compatibility, support joining the meeting on WIFI, 4G, and 5G networks.
- * Support text chat and sending/receiving emoticons when watching live broadcast.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

HD Video Conference Terminal

HD video conference terminal embedded software V2.1

NT90LT (LT02)



Description

The brand-new 4K UHD video conference split terminal supports H.265 technology and achieves 4K UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various medium and large conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main stream can reach 4K30fps.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P and 4K video resolutions.
- * Support 1280*720P 60fps/50fps/30fps/25fps, 1920*1080P 60fps/50fps/30fps/25fps, 3840*2160 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. when sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports actively opening up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support single-screen dual-display, dual-screen dual-display and three-screen three-display functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support switching the signal sources of mainstream video and auxiliary video in the meeting;
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support the wireless streaming function. Just install a software on the computer and connect it

Specification

Model	NT90LT
Communication protocol	Compliant with ITU H.323, SIP protocol
Video input	7 HD video input ports: HDMI*4, SDI*1, DVI*1, VGA*1, optional HDBaseT*1
Video output	5 HD video output ports: HDMI*3, DVI*1, VGA*1, optional HDBaseT*1
Audio input	6 audio input ports: XLR*1, RCA*1, HDMI*4
Audio output	4 audio output ports: HDMI*3, RCA*1
Network port	2 Gigabit Ethernet ports: RJ45*2
USB port	3 USB ports, connected to extension devices or upgrade online
Control interface	1 RS-232; 2 COM
Display method	Supports 4:3 and 16:9
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC12V/5A
Dimension	440*225.5*45mm
Weight	3.2Kg

- to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting.
- * Support inviting to join the meeting, you can see the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Rich audiovisual ports: 7 video input ports (4*HDMI, 1*SDI, 1*DVI, 1*VGA), 5 video output ports (3*HDMI, 1*DVI, 1*VGA), optional 1 HDBaseT video input and 1 HDBaseT video output; 6 audio input ports (1*XLR, 1*RCA, 4*HDMI), 4 audio output ports (1*RCA, 3*HDMI).
- * Support local 2 channels of 4K HDMI signals to be synthesized into 1 channel of 4K signal and work as the mainstream to be sent remote, support 10 kinds of composite layouts.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content; when the electronic whiteboard is operated on the terminal output interface, the web synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

HD Video Conference Terminal

HD video conference terminal embedded software V2.3

NT90LT (LT02M4)



Description

The brand-new 4K UHD video conference split terminal supports H.265 technology and achieves 4K UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various medium and large conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main stream can reach 4K30fps.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P and 4K video resolutions.
- * Support 1280*720P 60fps/50fps/30fps/25fps, 1920*1080P 60fps/50fps/30fps/25fps, 3840*2160 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. when sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports actively opening up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support single-screen dual-display, dual-screen dual-display and three-screen three-display functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support switching the signal sources of mainstream video and auxiliary video in the meeting;
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need

Specification

Model	NT90LT
Built-in MCU	4 points
Communication protocol	Compliant with ITU H.323, SIP protocol
Video input	7 HD video input ports: HDMI*4, SDI*1, DVI*1, VGA*1, optional HDBaseT*1
Video output	5 HD video output ports: HDMI*3, DVI*1, VGA*1, optional HDBaseT*1
Audio input	6 audio input ports: XLR*1, RCA*1, HDMI*4
Audio output	4 audio output ports: HDMI*3, RCA*1
Network port	2 Gigabit Ethernet ports: RJ45*2
USB port	3 USB ports, connected to extension devices or upgrade online
Control interface	1 RS-232; 2 COM
Display method	Supports 4:3 and 16:9
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC12V/5A
Dimension	440*225.5*45mm
Weight	3.2Kg

- for external hardware devices.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting.
- * Support inviting to join the meeting, you can see the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Rich audiovisual ports: 7 video input ports (4*HDMI, 1*SDI, 1*DVI, 1*VGA), 5 video output ports (3*HDMI, 1*DVI, 1*VGA), optional 1 HDBaseT video input and 1 HDBaseT video output; 6 audio input ports (1*XLR, 1*RCA, 4*HDMI), 4 audio output ports (1*RCA, 3*HDMI).
- * Support local 2 channels of 4K HDMI signals to be synthesized into 1 channel of 4K signal and work as the mainstream to be sent remote, support 10 kinds of composite layouts.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content; when the electronic whiteboard is operated on the terminal output interface, the web synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.
- * Built-in MCU function module, support holding 4-party conferences, support smooth expansion to 8-point built-in MCU functions; support built-in MCU holding mainstream and auxiliary conferences; support PC computer version or mobile terminal access to the conference.

HD Video Conference Terminal

HD video conference terminal embedded software V2.3

NT90LT (LT02M8)



Description

The brand-new 4K UHD video conference split terminal supports H.265 technology and achieves 4K UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various medium and large conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main stream can reach 4K30fps.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P and 4K video resolutions.
- * Support 1280*720P 60fps/50fps/30fps/25fps, 1920*1080P 60fps/50fps/30fps/25fps, 3840*2160 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. when sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports actively opening up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support single-screen dual-display, dual-screen dual-display and three-screen three-display functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support switching the signal sources of mainstream video and auxiliary video in the meeting;
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.

Specification

Model	NT90LT
Built-in MCU	8 points
Communication protocol	Compliant with ITU H.323, SIP protocol
Video input	7 HD video input ports: HDMI*4, SDI*1, DVI*1, VGA*1, optional HDBaseT*1
Video output	5 HD video output ports: HDMI*3, DVI*1, VGA*1, optional HDBaseT*1
Audio input	6 audio input ports: XLR*1, RCA*1, HDMI*4
Audio output	4 audio output ports: HDMI*3, RCA*1
Network port	2 Gigabit Ethernet ports: RJ45*2
USB port	3 USB ports, connected to extension devices or upgrade online
Control interface	1 RS-232; 2 COM
Display method	Supports 4:3 and 16:9
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC12V/5A
Dimension	440×225.5×45mm
Weight	3.2Kg

- * Support controlling the speech of other terminals in the same meeting.
- * Support inviting to join the meeting, you can see the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Rich audiovisual ports: 7 video input ports (4*HDMI, 1*SDI, 1*DVI, 1*VGA), 5 video output ports (3*HDMI, 1*DVI, 1*VGA), optional 1 HDBaseT video input and 1 HDBaseT video output; 6 audio input ports (1*XLR, 1*RCA, 4*HDMI), 4 audio output ports (1*RCA, 3*HDMI).
- * Support local 2 channels of 4K HDMI signals to be synthesized into 1 channel of 4K signal and work as the mainstream to be sent remote, support 10 kinds of composite layouts.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content; when the electronic whiteboard is operated on the terminal output interface, the web synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.
- * Built-in MCU function module, support holding 8-party conferences; support built-in MCU holding mainstream and auxiliary conferences; support PC computer version or mobile terminal access to the conference.

HD Video Terminal

Embedded software: HD video conference terminal embedded software V2.0

NT90MB(MB02)



Description

The brand-new HD video conference split terminal supports H.265 technology and achieves UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various small and medium conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. when sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- 10.Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support inviting to join the meeting, you can view the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support single-screen dual-display and dual-screen dual-display application functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting, support sending scrolling messages and banners, etc.
- * Support switching the signal sources of mainstream video in the meeting;
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.

Specification

Model	NT90MB
Communication protocol	Comply with ITU H.323 and SIP protocol
Video input	3 HD video input ports, HDMI*3
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports can be used for device extensions or online upgrades
Control interface	1 RS-232
Video protocol	Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video standard protocols
Dual stream protocol	Support H.239, BFCP dual-stream protocol
Display method	Support 4:3 and 16:9
Cooling method	Built-in cooling fan
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC 12V
Dimension	220×210×30mm
Weight	1.5kg

- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Support 3 audio input ports (2*3.5mm, 1*HDMI), 2 audio output ports (1*HDMI, 1*3.5mm).
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support power-on boot of the device and power management of the fan, and configure whether to enable the device power-on boot and the fan.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support infrared pass-through function, transmit infrared signals to the video conference terminal through the camera using the infrared remote, so as to realize remote control of the terminal by the infrared remote.

HD Video Terminal

Embedded software: HD video conference with MCU terminal embedded software V2.0 NT90MB (MB02M4)



Description

The brand-new HD video conference split terminal supports H.265 technology and achieves UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various small and medium conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support holding 4-party meetings, support smooth expansion to 8-point built-in MCU function, support built-in MCU holding mainstream and auxiliary stream meetings, and support PC or mobile terminals joining the meeting.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support inviting to join the meeting, you can view the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support single-screen dual-display and dual-screen dual-display application functions, realize

- multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting, support sending scrolling messages and banners, etc.
- * Support switching the signal sources of mainstream video in the meeting;
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Support 3 audio input ports (2*3.5mm, 1*HDMI), 2 audio output ports (1*HDMI, 1*3.5mm).
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support power-on boot of the device and power management of the fan, and configure whether to enable the device power-on boot and the fan.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support infrared pass-through function, transmit infrared signals to the video conference terminal through the camera using the infrared remote, so as to realize remote control of the terminal by the infrared remote.

HD Video Terminal

Embedded software: HD video conference with MCU terminal embedded software V2.3 NT90MB (MB02M8)



Description

The brand-new HD video conference split terminal supports H.265 technology and achieves UHD display effects with ultra-low bandwidth. Integrating rich audiovisual ports, it is suitable for various small and medium conference venues.

Feature

- * Adopt a split structure, built-in hardware video processing unit, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support holding 8-party meetings, support built-in MCU holding mainstream and auxiliary stream meetings, and support PC or mobile terminals joining the meeting.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc. The wireless mouse control mode is supported.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching;
- * Support inviting to join the meeting, you can view the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support actively turning on the remote auxiliary screens, and watch up to 25 auxiliary screens of different video terminals at the same time.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support single-screen dual-display and dual-screen dual-display application functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting, support sending scrolling

- messages and banners, etc.
- * Support switching the signal sources of mainstream video in the meeting;
- * Equipped with a USB interface to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * The terminal has built-in modules such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing, to meet the needs of remote training, teaching and other scenes.
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the APP to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the APP. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Support 3 audio input ports (2*3.5mm, 1*HDMI), 2 audio output ports (1*HDMI, 1*3.5mm).
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support audio processing functions such as automatic noise suppression, automatic gain control, automatic echo cancellation, and lip synchronization.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support power-on boot of the device and power management of the fan, and configure whether to enable the device power-on boot and the fan.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support infrared transparent transmission function, transmit infrared signals to the video conference terminal through the camera using the infrared remote, so as to realize remote control of the terminal by the infrared remote.

Specification

Model	NT90MB
Built-in MCU	4 points
Communication protocol	Comply with ITU H.323 and SIP protocol
Video input	3 HD video input ports, HDMI*3
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports, used for device extensions or online upgrades
Control interface	1 RS-232
Video protocol	Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video standard protocols
Dual stream protocol	Support H.239, BFCP dual-stream protocol
Display method	Support 4:3 and 16:9
Cooling method	Built-in cooling fan
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC 12V
Dimension	220*210*30mm
Weight	1.5kg

Specification

Model	NT90MB
Built-in MCU	8 points
Communication protocol	Comply with ITU H.323 and SIP protocol
Video input	3 HD video input ports, HDMI*3
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports can be used for device extensions or online upgrades
Control interface	1 RS-232
Video protocol	Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video standard protocols
Dual stream protocol	Support H.239, BFCP dual-stream protocol
Display method	Support 4:3 and 16:9
Cooling method	Built-in cooling fan
Ambient temperature	0°C~35°C (working state) -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state) 0%~95% (non-working state) (no condensation)
Power supply	DC 12V
Dimension	220*210*30mm
Weight	1.5kg



HD Video Terminal

Embedded software: HD video conference

terminal embedded software V2.0

NT90MT (MT04)



Description

The brand-new integrated HD video conference terminal integrates a 4K HD camera and a microphone, featuring exquisite appearance and excellent performance. It supports H.265 technology and achieves ultra HD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium meeting venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit and integrated 4K HD camera; embedded Linux operating system, non-Windows/Android operating system; built-in hardware video processing unit.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol; support mainstream up to 4K, and auxiliary stream 1080P.
- * Support 64Kbps-8Mbps call bandwidth; support CIF, 4CIF, 720P, 1080P, 4K video resolution.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocol, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codec protocols, the sound quality is up to 48KHz.
- * Support controlling the terminal through 2.4G remote control, web, touch, mouse and keyboard, etc.
- * Support turning on and off the remote video flexibly; support dragging and dropping to change the window position of the video in the screen layout by flying mouse.
- * Adopting B/S management structure, users can log in to WEB for remote management through a browser; support switching between Chinese and English.
- * No need to register, just enter the meeting number to join the corresponding meeting, and you can choose to join the meeting in the interactive mode or live mode.
- * Support the chairman control mode. After applying for the chairman authority, you can control the dual-stream encoding rate, resolution and other parameters of all remote venues; support moving up, down, left, and right, focusing, and zooming operations on the PTZ camera at the remote venue.
- * The main screen supports the output of 4K signals; a single screen can actively open 25 channels of video screens at the same time, and can display the main and auxiliary stream screens of multiple venues at the same time.
- * Support single-screen dual-display, dual-screen dual-display application functions, so as to realize multi-screen layout; support picture-in-picture and other common layouts.
- * Support wireless streaming function; only need to install a software on the computer, connect to the terminal through the network to realize the wireless shared streaming function, no need for external hardware devices.
- * Supports setting the full-screen display or composite display of the auxiliary stream in the meeting.
- * Support the annotation function of the auxiliary stream; you can make real-time annotations on the auxiliary stream screen when sending or receiving the auxiliary stream; you can set three brush thicknesses, five brush colors, and annotate graphics such as circles, squares, arrows, and lines; when sending content, you can set whether to open the annotation permission to the participants for interactive annotation.

Specification

Model	NT90MT (MT04)
Video input	1 HDMI video input interface + 1 built-in HD camera input
Video output	2 video output interfaces, HDMI*2
Audio input	3 audio input interfaces, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output interfaces, HDMI*1, LINE OUT*1
Network interface	1 Gigabit network port, RJ45*1; 1 WIFI network (optional 4G)
USB interface	2 USB2.0 ports, used for connecting extension devices or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12MP image sensor, 12x optical zoom, 4K ultra HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0°C~35°C (working state), -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension (L*W*H)	248mm*154mm*190mm
Weight	2kg
Power supply	DC 12V, support POE, IEEE802.3at standard

- * Support dual-stream bandwidth control of all remote venues; support PTZ control of remote venues.
- * Supports controlling the speech rights of other terminals in the same meeting.
- * Equipped with a USB interface, it supports access to USB storage devices; it supports meeting recording function, which can directly record video and audio during the meeting; it supports program upgrades and capture of data packets through USB storage devices.
- * Support one-click Meet Now on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting. You can invite the meeting venue to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support booking meetings on the terminal. You can select members, set meeting passwords, chairman passwords, live passwords, meeting time, etc. After submission, the MCU will automatically hold the meeting according to the scheduled meeting time; the meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the terminal applying for the chairman to switch from the live mode to the meeting mode or from the meeting mode to the live mode for other participating terminals in the meeting. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the terminal actively applying to the chairman to switch from the live mode to the meeting mode. With the chairman's approval, it can switch to the meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support video polling function, you can choose the polling window, polling interval, and polling personnel; support voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * The screen layout supports the auto split screen function, which automatically selects the appropriate layout according to the number of terminals joining the meeting and automatically opens the screen; it supports the autofill function, which selects a fixed screen layout and automatically opens on the idle window after the terminal joins the meeting.
- * The third-party system supports functions such as adjusting the camera, sending scrolling messages, setting banners, switching screen layouts, and controlling the speech rights of each venue through the API call terminal.
- * Support 1 HDMI input interface, 2 HDMI output interfaces; 3 audio input interfaces (2*3.5mm, 1*HDMI), 2 audio output interfaces (1*HDMI, 1*3.5mm).
- * Integrated camera hardware design, built-in camera 12x optical zoom, 4K ultra HD resolution.
- * Support IP network packet loss repair mechanism; when 30% network packet loss, the sound is clear and continuous, the video is smooth, no freeze, no mosaic; when 80% network packet loss, the sound is clear and smooth, and can be accurately understood.
- * With super network adaptability, it can automatically adjust the resolution according to the network, so as to ensure the smoothness of the meeting.
- * Support the banner function; you can add a banner on the meeting screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function; you can send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support echo cancellation, noise suppression, silence detection, auto gain function; support broadband voice above 20KHz.
- * Support inviting to join the meeting; you can see the real-time status of the online contacts; the online and offline status of each meeting venue can be displayed.
- * Support applying for speaking; you can apply for speech permission from the chairman venue.
- * Support venue mute and volume off functions; the venue sound output is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * With good management and maintainability, support local audio and video loop diagnosis function; support one-key local audio and video test; support network ping test on the operation interface; support query of call logs and historical records.
- * You can view the media information of audio, mainstream video, auxiliary stream video; you can view the protocol, format, bit rate, number of sent and received packets, data amount of sent and received packets, packet loss rate, number of lost packets, jitter, delay, sending and receiving address, encryption or not and other information.
- * Support web interactive electronic whiteboard function, you can operate electronic whiteboard on the terminal control web, set three brush thicknesses, five brush colors, and annotation graphics such as circles, squares, arrows, lines and so on; you can set solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen will follow and display the content of the electronic whiteboard synchronously. The electronic whiteboard supports pagination, up to 5 pages.
- * Support setting the delay level of the live broadcast, including three options: smooth, moderate and real-time.
- * Built-in pickup microphone, the best pickup distance is 3 meters, and the maximum pickup is 6 meters.
- * Support POE power supply.



HD Video Terminal

Embedded software: HD video conference

terminal embedded software V2.0

NT90MT (MT04M4)



Description

The brand-new integrated HD video conference terminal integrates a 4K HD camera and a microphone, featuring exquisite appearance and excellent performance. It supports H.265 technology and achieves ultra HD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium meeting venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit and integrated 4K HD camera; embedded Linux operating system, non-Windows/Android operating system; built-in hardware video processing unit.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol; support mainstream up to 4K, and auxiliary stream 1080P.
- * Support 64Kbps-8Mbps call bandwidth; support CIF, 4CIF, 720P, 1080P, 4K video resolution.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocol, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support 4-party meeting, support smooth extension to 8-bit built-in MCU function; support built-in MCU holding main and auxiliary stream meetings; support PC client or mobile terminal joining the meeting.
- * Support controlling the terminal through 2.4G remote control, web, touch, mouse and keyboard, etc.
- * Support turning on and off the remote video flexibly; support dragging and dropping to change the window position of the video in the screen layout by flying mouse.
- * Adopting B/S management structure, users can log in to WEB for remote management through a browser; support switching between Chinese and English.
- * No need to register, just enter the meeting number to join the corresponding meeting, and you can choose to join the meeting in the interactive mode or live mode.
- * Support the chairman control mode. After applying for the chairman authority, you can control the dual-stream encoding rate, resolution and other parameters of all remote venues; support moving up, down, left, and right, focusing, and zooming operations on the PTZ camera at the remote venue.
- * The main screen supports the output of 4K signals; a single screen can actively open 25 channels of video screens at the same time, and can display the main and auxiliary stream screens of multiple venues at the same time.
- * Support single-screen dual-display, dual-screen dual-display application functions, so as to realize multi-screen layout; support picture-in-picture and other common layouts.
- * Support wireless streaming function; only need to install a software on the computer, connect to the terminal through the network to realize the wireless shared streaming function, no need for external hardware devices.
- * Supports setting the full-screen display or composite display of the auxiliary stream in the meeting.
- * Support the annotation function of the auxiliary stream; you can make real-time annotations on the auxiliary stream screen when sending or receiving the auxiliary stream; you can set three brush thicknesses, five brush colors, and annotate graphics such as circles, squares, arrows, and lines; when sending content, you can set whether to open the annotation permission to the participants for interactive annotation.

Specification

Model	NT90MT (MT04M4)
Video input	1 HDMI video input interface + 1 built-in HD camera input
Video output	2 video output interfaces, HDMI*2
Audio input	3 audio input interfaces, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output interfaces, HDMI*1, LINE OUT*1
Network interface	1 Gigabit network port, RJ45*1; 1 WIFI network (optional 4G)
USB interface	2 USB2.0 ports, used for connecting extension devices or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12MP image sensor, 12x optical zoom, 4K ultra HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0°C~35°C (working state), -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension (L*W*H)	248mm*154mm*190mm
Weight	2kg
Power supply	DC 12V, support POE, IEEE802.3at standard

HD Video Terminal

Embedded software: HD video conference terminal embedded software V2.0 NT90MT (MT04M8)



Description

The brand-new integrated HD video conference terminal integrates a 4K HD camera and a microphone, featuring exquisite appearance and excellent performance. It supports H.265 technology and achieves ultra HD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium meeting venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit and integrated 4K HD camera; embedded Linux operating system, non-Windows/Android operating system; built-in hardware video processing unit.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol; support mainstream up to 4K, and auxiliary stream 1080P.
- * Support 64Kbps-8Mbps call bandwidth; support CIF, 4CIF, 720P, 1080P, 4K video resolution.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocol, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support 8-party meeting; support built-in MCU holding main and auxiliary stream meetings; support PC client or mobile terminal joining the meeting.
- * Support controlling the terminal through 2.4G remote control, web, touch, mouse and keyboard, etc.
- * Support turning on and off the remote video flexibly; support dragging and dropping to change the window position of the video in the screen layout by flying mouse.
- * Adopting B/S management structure, users can log in to WEB for remote management through a browser; support switching between Chinese and English.
- * No need to register, just enter the meeting number to join the corresponding meeting, and you can choose to join the meeting in the interactive mode or live mode.
- * Support the chairman control mode. After applying for the chairman authority, you can control the dual-stream encoding rate, resolution and other parameters of all remote venues; support moving up, down, left, and right, focusing, and zooming operations on the PTZ camera at the remote venue.
- * The main screen supports the output of 4K signals; a single screen can actively open 25 channels of video screens at the same time, and can display the main and auxiliary stream screens of multiple venues at the same time.
- * Support single-screen dual-display, dual-screen dual-display application functions, so as to realize multi-screen layout; support picture-in-picture and other common layouts.
- * Support wireless streaming function; only need to install a software on the computer, connect to the terminal through the network to realize the wireless shared streaming function, no need for external hardware devices.
- * Supports setting the full-screen display or composite display of the auxiliary stream in the meeting.
- * Support the annotation function of the auxiliary stream; you can make real-time annotations on the auxiliary stream screen when sending or receiving the auxiliary stream; you can set three brush thicknesses, five brush colors, and annotate graphics such as circles, squares, arrows, and lines; when sending content, you can set whether to open the annotation permission to the participants for interactive annotation.

Specification

Model	NT90MT (MT04M8)
Video input	1 HDMI video input interface + 1 built-in HD camera input
Video output	2 video output interfaces, HDMI*2
Audio input	3 audio input interfaces, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output interfaces, HDMI*1, LINE OUT*1
Network interface	1 Gigabit network port, RJ45*1; 1 WIFI network (optional 4G)
USB interface	2 USB2.0 ports, used for connecting extension devices or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12MP image sensor, 12x optical zoom, 4K ultra HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0°C~35°C (working state), -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension (L*W*H)	248mm*154mm*190mm
Weight	2kg
Power supply	DC 12V, support POE, IEEE802.3at standard

- * Support dual-stream bandwidth control of all remote venues; support PTZ control of remote venues.
- * Supports controlling the speech rights of other terminals in the same meeting.
- * Equipped with a USB interface, it supports access to USB storage devices; it supports meeting recording function, which can directly record video and audio during the meeting; it supports program upgrades and capture of data packets through USB storage devices.
- * Support one-click Meet Now on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting. You can invite the meeting venue to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support booking meetings on the terminal. You can select members, set meeting passwords, chairman passwords, live passwords, meeting time, etc. After submission, the MCU will automatically hold the meeting according to the scheduled meeting time; the meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the terminal applying for the chairman to switch from the live mode to the meeting mode or from the meeting mode to the live mode for other participating terminals in the meeting. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the terminal actively applying to the chairman to switch from the live mode to the meeting mode. With the chairman's approval, it can switch to the meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support video polling function, you can choose the polling window, polling interval, and polling personnel; support voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * The screen layout supports the auto split screen function, which automatically selects the appropriate layout according to the number of terminals joining the meeting and automatically opens the screen; it supports the autofill function, which selects a fixed screen layout and automatically opens on the idle window after the terminal joins the meeting.
- * The third-party system supports functions such as adjusting the camera, sending scrolling messages, setting banners, switching screen layouts, and controlling the speech rights of each venue through the API call terminal.
- * Support 1 HDMI input interface, 2 HDMI output interfaces; 3 audio input interfaces (2*3.5mm, 1*HDMI), 2 audio output interfaces (1*HDMI, 1*3.5mm).
- * Integrated camera hardware design, built-in camera 12x optical zoom, 4K ultra HD resolution.
- * Support IP network packet loss repair mechanism; when 30% network packet loss, the sound is clear and continuous, the video is smooth, no freeze, no mosaic; when 80% network packet loss, the sound is clear and smooth, and can be accurately understood.
- * With super network adaptability, it can automatically adjust the resolution according to the network, so as to ensure the smoothness of the meeting.
- * Support the banner function; you can add a banner on the meeting screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function; you can send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- * Support echo cancellation, noise suppression, silence detection, auto gain function; support broadband voice above 20KHz.
- * Support inviting to join the meeting; you can see the real-time status of the online contacts; the online and offline status of each meeting venue can be displayed.
- * Support applying for speaking; you can apply for speech permission from the chairman venue.
- * Support venue mute and volume off functions; the venue sound output is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * With good management and maintainability, support local audio and video loop diagnosis function; support one-key local audio and video test; support network ping test on the operation interface; support query of call logs and historical records.
- * You can view the media information of audio, mainstream video, auxiliary stream video; you can view the protocol, format, bit rate, number of sent and received packets, data amount of sent and received packets, packet loss rate, number of lost packets, jitter, delay, sending and receiving address, encryption or not and other information.
- * Support web interactive electronic whiteboard function, you can operate electronic whiteboard on the terminal control web, set three brush thicknesses, five brush colors, and annotation graphics such as circles, squares, arrows, lines and so on; you can set solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen will follow and display the content of the electronic whiteboard synchronously. The electronic whiteboard supports pagination, up to 5 pages.
- * Support setting the delay level of the live broadcast, including three options: smooth, moderate and real-time.
- * Built-in pickup microphone, the best pickup distance is 3 meters, and the maximum pickup is 6 meters.
- * Support POE power supply.

HD Video Terminal

Embedded software: HD video conference terminal embedded software V2.00 NT90MT (MT01)



Description

The brand-new integrated HD video conference terminal, featuring HD camera, exquisite appearance and excellent performance, supports H.265 technology and achieves UHD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium conference venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit, HD camera, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support single-screen dual-display and dual-screen dual-display application functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * Support full-screen display or composite display of auxiliary streams in the meeting.
- * Support the annotation function of the auxiliary stream, and make real-time

Specification

Model	NT90MT (MT01)
Video input	1 HDMI video input port + 1 built-in HD camera input
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports can be used for device extensions or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12 million image sensor, 12x optical zoom, 1080P full HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0°C~35°C (working state), -40°C~55°C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension	248*154*190mm
Power supply	DC 12V

- annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting.
- * Equipped with a USB port to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Support 1 HDMI input port, 2 HDMI output ports, 3 audio input ports (2*3.5mm, 1*HDMI), 2 audio output ports (1*HDMI, 1*3.5mm).
- * Integrated camera hardware design, built-in camera 12x optical zoom, 1080P full HD resolution.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support echo cancellation, noise suppression, mute detection, automatic gain function, support 20KHz broadband voice or higher.
- * Support inviting to join the meeting, you can view the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

HD Video Terminal

Embedded software: HD video conference with MCU terminal embedded software V2.3 NT90MT (MT01M4)



Description

The brand-new integrated HD video conference terminal, featuring HD camera, exquisite appearance and excellent performance, supports H.265 technology and achieves UHD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium conference venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit, HD camera, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support holding 4-party meetings, support smooth expansion to 8-point built-in MCU function, support built-in MCU holding mainstream and auxiliary stream meetings, and support PC or mobile terminals joining the meeting.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support single-screen dual-display and dual-screen dual-display application functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * Support full-screen display or composite display of auxiliary streams in the meeting.

Specification

Model	NT90MT (MT01M4)
Built-in MCU	4 points
Video input	1 HDMI video input port + 1 built-in HD camera input
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports can be used for device extensions or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12 million image sensor, 12x optical zoom, 1080P full HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0 C~35 C (working state), -40 C~55 C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension	248*154*190mm
Power supply	DC 12V

HD Video Terminal

Embedded software: HD video conference with MCU terminal embedded software V2.3 NT90MT (MT01M8)



Description

The brand-new integrated HD video conference terminal, featuring HD camera, exquisite appearance and excellent performance, supports H.265 technology and achieves UHD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium conference venues.

Feature

- * Adopt an integrated structure, built-in hardware video processing unit, HD camera, and embedded Linux operating system, non-Windows/Android operating system.
- * Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol, the main and auxiliary streams can reach 1080P.
- * Support 64Kbps-8Mbps call bandwidth, support QCIF, CIF, 4CIF, 480P, D1, 720P, and 1080P video resolutions.
- * Support 1280*720 60fps/50fps/30fps/25fps, 1920*1080 60fps/50fps/30fps/25fps HD video signal input.
- * Support 1024*768 60fps, 1280*720 60fps, 1920*1080 60fps/30fps, 3840*2160 60fps/30fps HD video signal output.
- * Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocols, support G.711, G.722, G.722.1, G.722.1C, OPUS audio codec protocols, the sound quality is up to 48KHz.
- * Built-in MCU function module, support holding 8-party meetings, support built-in MCU holding mainstream and auxiliary stream meetings, and support PC or mobile terminals joining the meeting.
- * The terminal can be controlled by 2.4G remote, web, touch control, mouse and keyboard, etc.
- * Support freely turning on/off the remote video, support changing the window position of the video in the screen layout by drag and drop via the wireless mouse.
- * Adopt the B/S management structure, access the browser to log in to the WEB for remote management of the terminal, support Chinese and English language switching.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support the chairman control mode. The chairman can control the dual-stream encoding rate, resolution and other parameters of all remote venues, and control the PTZ camera turning, focusing, and zooming operations.
- * The main screen supports 4K signal outputs, and a single screen supports up to 25 video images;
- * Support single-screen dual-display and dual-screen dual-display application functions, realize multi-screen layout, support multiple common layouts such as PIP; a single screen supports simultaneous display of 25 video images.
- * Support the wireless streaming function. Just install a software on the computer and connect it to the terminal through the network to realize the wireless shared streaming function; no need for external hardware devices.
- * Support full-screen display or composite display of auxiliary streams in the meeting.

Specification

Model	NT90MT (MT01M8)
Built-in MCU	8 points
Video input	1 HDMI video input port + 1 built-in HD camera input
Video output	2 HD video output ports, HDMI*2
Audio input	3 audio input ports, MIC IN*1, LINE IN*1, HDMI*1
Audio output	2 audio output ports, HDMI*1, LINE OUT*1
Internet	1 Gigabit Ethernet port, RJ45*1; 1 WIFI network (can be changed to 4G network)
USB port	2 USB2.0 ports can be used for device extensions or online upgrades
Display method	Support 4:3 and 16:9
Built-in camera	1/2.3-inch 12 million image sensor, 12x optical zoom, 1080P full HD resolution, 72.5° horizontal viewing angle
Ambient temperature	0 C~35 C (working state), -40 C~55 C (non-working state)
Relative humidity	10%~80% (working state), 0%~95% (non-working state) (no condensation)
Dimension	248*154*190mm
Power supply	DC 12V

- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. when sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * Support controlling the dual-stream bandwidth of all remote venues, and support PTZ control.
- * Support controlling the speech of other terminals in the same meeting.
- * Equipped with a USB port to connect USB storage devices; support meeting recording function, to directly record video and audio during the meeting; support program upgrades and capture data packets through USB storage devices.
- * Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on APP, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the APP. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support terminals actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the video polling function, you can choose the polling window, polling interval, and polling participant; support the voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- * Support Auto split screen function, automatically select the appropriate layout according to the number of terminals joining the meeting and automatically turn on the screen; support Autofill function, select a fixed screen layout, and automatically open it on an idle window after the terminal joins the meeting.
- * A complete SDK development manual for the terminal can be provided, to invoke the adjustment camera of the terminal, send scrolling messages, set banners, switch screen layout, and control the speech of each venue through the SDK, and third-party systems can be seamlessly integrated.
- * Support 1 HDMI input port, 2 HDMI output ports, 3 audio input ports (2*3.5mm, 1*HDMI), 2 audio output ports (1*HDMI, 1*3.5mm).
- * Integrated camera hardware design, built-in camera 12x optical zoom, 1080P full HD resolution.
- * Support IP network packet loss repair mechanism; under 30% packet loss rate, the sound is continuous and the video is smooth, without lagging and blurring; under 80% packet loss rate, the sound is clear and can be accurately understood.
- * Super network adaptability, automatically adjust the resolution according to the network to ensure the smoothness of the meeting.
- * Support the banner function: you can add a banner on the screen, and set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support scrolling message function: you can send scrolling message, and set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Support echo cancellation, noise suppression, mute detection, automatic gain function, support 20KHz broadband voice or higher.
- * Support inviting to join the meeting, you can view the real-time status of the online address book, and the online and offline status of each venue.
- * Support applying for speaking: apply to the chairman venue for speaking permission.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * Support voice priority, support QOS strategy mode.
- * Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- * Support convenient management and maintenance, support local audiovisual loop diagnostic functions, and one-key local audiovisual testing, support network ping test on the operation interface, and support call log and historical record query.
- * Support viewing the media information of audio, mainstream video, and auxiliary video, including the protocol, format, bit rate, packet quantity, packet capacity, packet loss rate, packet loss quantity, jitter, delay, sending/receiving address, encrypted or not.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, up to 5 pages.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.

HD Video Terminal NT90MT (Mt03)



Description

The brand-new integrated HD video conference terminal, featuring HD camera, microphone, exquisite appearance and excellent performance, supports H.265 technology and achieves UHD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium conference venues.

Feature

- * Adopt an integrated design, built-in hardware video processing unit and HD camera; embedded hardware solution, high efficiency and low latency.
- * Using a complete native Android underlying operating system, Android video conference applications can be seamlessly transplanted.
- * Support ITU-T H.323 standard protocol and has excellent compatibility.
- * Support H.264 BP, H.264 HP video codec protocol, support 1080P, 720P, VGA, CIF, QVGA, QCIF video resolution; support CIF, 4CIF, 720P, 1080P and other resolutions, support 1-30 frame rate; support 64Kbps-8Mbps access rate.
- * Supports audio codec protocols such as G.711, G.722, OPUS, etc.
- * Support electronic whiteboard, file sharing, conference sign-in, electronic voting and other digital conference function.
- * Support H.239 dual stream function; while the mainstream reaches 1080P, the auxiliary stream can also reach 1080P.
- * Support mouse control mode, support drag and drop the video window by mouse.
- * Support controlling the dual-stream bandwidth of all remote venues, support PTZ control for remote venues, support control of the speech of other terminals, and support operations such as sending scrolling messages and banners.
- * Support wireless streaming function, send wireless content to other venues for simultaneous viewing.
- * Support multi-screen auto split screen function, automatically select the appropriate multi-screen layout according to the number of terminals joining the meeting.
- * Support resource file management; you can view, open, delete downloaded files and external U disk files in idle state.
- * No need for registration, enter the meeting number to join the corresponding meeting, and you can choose the meeting interactive mode or live broadcast mode.
- * Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support scheduling meetings on the terminal, select participants, set meeting password, chairman password, live broadcast password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in.
- * Support the chairman switching other terminals in the meeting between live broadcast mode and meeting mode on the terminal. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the terminal actively applying to the chairman to switch from live broadcast mode to meeting mode. And they can switch to meeting mode with approval. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- * Support the annotation function of the auxiliary stream, and make real-time annotations on the auxiliary stream screen when sending/receiving the auxiliary stream; set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines. When sending auxiliary stream, you can set whether to enable annotation permissions for participants to make comments together.
- * Support common functions such as switching screen layout and chairman control.
- * Support the banner function; you can add a banner on the conference screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- * Support the scrolling message function; you can send scrolling message, and you can set whether to enable scrolling message and the font size, font color, background color and scrolling times of the scrolling message.
- * Fully auto focus lens with no distortion (AF lens), wide-angle field of view up to 84°; support electronic PTZ (EPTZ).
- * The built-in microphone array supports omnidirectional pickup; the unique noise suppression algorithm supports automatic noise suppression, automatic gain control, automatic echo cancellation, lip synchronization and other audio processing functions.
- * Support the venue Mute and Silence function, and the audio output of the venue is adjustable.
- * The built-in wireless WiFi module supports access to the wireless network.
- * Equipped with a USB port, the terminal can be controlled by 2.4G remote, touch control, mouse and keyboard, etc. It also supports the wireless mouse control mode.
- * Fully open API supports the development of third-party applications, and convenient secondary development makes it easy to achieve customized requirements.
- * Support setting the delay grade of live broadcast, including 3 options: smooth, moderate, and real-time.
- * Support the web interactive whiteboard function, you can perform the whiteboard operation on the terminal control web, set three different pen thicknesses, five pen colors, and set annotation graphics such as circles, squares, arrows, and lines, set a solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen synchronously displays the whiteboard content. The electronic whiteboard supports paging function, and up to 5 pages.

Specification

Model	NT90MT (MT03)
Built-in HD camera	Sensor: 1/2.5 inches, CMOS effective pixel: 2.07 million; Scanning mode: progressive; Lens focal length: f=3.5mm; horizontal field of view: 84°; auto focus: support
Video output	Two HDMI output ports
Built-in microphone	Omnidirectional pickup, pickup distance up to 3 meters
Audio port	One 3.5mm audio port (integrated input and output), two HDMI output ports (support audio)
USB port	One USB2.0
TF port	One TF card port
Internet	One RJ45, 10/100Base-T; one WIFI network
Dimension	195×34×59mm (excluding protruding parts)
Gross weight	0.25kg
Working voltage	DC 12V
Max power consumption	9.6W
Ambient temperature	0°C~40°C (working state), -40°C~70°C (non-working state)
Relative humidity	10% ~ 80% (working state), 0% ~ 95% (non-working state)
Ambient noise	Less than 46dBA SPL
Illuminance	5lux (minimum illuminance), the recommended illuminance is greater than 300lux

Video Conference Terminal NT90MT (MT06)



Description

The brand-new integrated HD video conference terminal, featuring HD camera, exquisite appearance and excellent performance, achieves UHD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium conference venues.

Feature

- * Support ITU-T H.323 standard protocol, and VCS protocol, with good compatibility.
- *Support QCIF, CIF, VGA, 720P, 1080P video resolutions.
- *Support H.264 video codec protocol, support G.711, G.722 and other audio codec protocols.
- *Integrated address book, call record function module.
- *Support common functions such as switching templates and applying to speak.
- *Support echo suppression function, with good user experience.
- *Support adaptive rate control.
- *Support joining the conference via WIFI, 3G, 4G network.
- *Support digital conference functions such as meeting sign-in, electronic whiteboard, electronic voting, and file sharing to meet the application requirements of remote training, teaching and other scenarios.
- *Support automatic paging to open the video images of all venues, each page has up to 4 split screens, and you can slide left and right to switch between different pages to watch different videos; when there is a venue sending auxiliary streams, the auxiliary streams are displayed in full screen on a single page, and you can click the button or swipe left and right to switch to the full-screen auxiliary stream page.
- *No need for registration, just enter the meeting number to join the corresponding meeting, and you can choose between the meeting interactive mode or live mode.
- *Support one-click meeting initiation on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting; support inviting venues to join the meeting. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and sign-in.
- *Support scheduling meetings on the terminal, select participants, set meeting password, chairman password, live password, meeting time, etc. After submission, the MCU will automatically hold a meeting according to the timetable. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and sign-in.
- *Support switching from live mode to meeting mode or from meeting mode to live mode; the meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and sign-in.

Specification

Model	NT90MT (MT06)
Touch screen	Capacitive multi-touch screen
Resolution	1920*1080
Screen size (L*W)	256mm*144mm
Operating system	Android operating system
Audio protocol	G.711, G.722
Video input	1 built-in 5M HD camera input
Video output	1 HDMI output, support HDMI1.4
Audio input	1 3.5 stereo interface, built-in microphone (hands-free call), one external handle (handset call)
Audio output	1 3.5 stereo interface, 1 built-in speaker
Network interface	1 Gigabit Ethernet port, RJ45*1
USB interface	1 USB 3.0 interface
Other interfaces	1 RS485 interface, 1 SD card interface, 1 TF card interface, 1 TYPE C interface, 1 relay interface
Antenna interface	Support 2.4G/5G WiFi, support Bluetooth
Video protocol	H.264
Network protocol	TCP /IP, UDP, IGMP
Display method	Supports 4:3 and 16:9
Speaker power	4R 3W
Mic input sensitivity	10mV
Distortion	0.1%
SNR	>85dB
Sampling rate	16K~48KHz
Output frequency	20Hz~20KHz
Code stream	1 6Kb~192Kb
Power consumption	10W
Operating temperature	-20°C~50°C
Relative humidity	10%~90%, no condensation
Dimension (L*W*H)	370mm*200mm*145mm
Power supply	DC 12V external DC power supply
Weight	3.4Kg
Installation method	Desktop installation

HD Video Conference Camera

Embedded software: HD video conference camera embedded software V2.0

TV-620HC (20x, 1080P Full HD, wide viewing angle, multi-interface, multi-protocol)



Description

It features completed functions, excellent performance and diversified interfaces. It adopts advanced ISP processing technology and algorithm, which provide vivid image effects, uniform picture brightness, clear light and color layering, high definition and good color reproduction. It supports H.265/H.264 encoding, making the picture smoother and clearer under low bandwidth. It is suitable for various application places such as remote teaching, classroom recording, conference system, remote training, remote medical care, court trial system, emergency command system and so on.

Feature

- * Full HD image: using 1/2.8-inch high quality image sensor, the maximum resolution is up to 1920x1080, and the output frame rate is up to 60 frames per second.
- * Leading auto-focus technology: the advanced auto-focus algorithm enables the lens to complete auto-focusing quickly, accurately and stably.
- * Low noise and high SNR: the low-noise CMOS effectively ensures the ultra-high SNR of the camera video. Adopt advanced 2D and 3D noise reduction technology to further reduce noise while ensuring image clarity.
- * Audio input port: support 16000, 32000, 44100, 48000 sampling frequency, support AAC, MP3, G711 audio coding.
- * Super mute PTZ: adopt high-precision stepper motor and precision motor drive controller to ensure stable operation of PTZ camera at low speed and no noise.
- * Diversified video output ports: support DVI (HDMI), 3G-SDI, wired LAN; 3G-SDI supports 1080P60.
- * Various video compression standards: support H.265/H.264 video compression; support up to 1920x1080 resolution and 60 frames/second; support 2-channel 1920x1080 resolution 30 frames/second compression.
- * Multiple network protocols: support ONVIF, GB/T28181, RTSP, RTMP protocol, RTP multicast, and support RTMP push mode, easy to link streaming media servers (Wowza, FMS)
- * Low-power sleep function: support low-power sleep/wake-up; the power consumption during sleep is less than 400mW.
- * Multiple control protocols: support VISCA, PELCO-D, PELCO-P protocols, and support automatic identification protocols; support network full command VISCA control protocol.
- * Multiple presets: support up to 255 presets (10 for remote control settings).

Specification

Model	TV-620HC
Image sensor	1/2.8-inch high quality CMOS sensor
Effective pixel	2.07 million, 16: 9
Video signal	ST port video format: 1080P60/50/30/25/59.94/29.97; 1080i60/50/59.94; 720P60/50/30/25/59.94/29.97
Lens zoom	20x optical zoom, f=4.7~94mm. 10x digital zoom
Viewing angle	2.9° (narrow angle) ~55.4° (wide angle)
Aperture coefficient	F1.6 ~ F3.5
Minimum illumination	0.5Lux(F1.8, AGC ON)
Digital noise reduction	2D&3D digital noise reduction
White balance	Auto/manual/one-button white balance/3000K/ 4000K/5000K/6500K
Focus	Auto/manual/one-button focus
SNR	>55dB
Video port	DVI (HDMI), 3G-SDI, LAN
Image stream	Dual stream output
Video compression format	H.265, H.264; dual stream output
Control signal port	RS-232, with loop RS-232 output
Control protocol	VISCA/Pelco-D/Pelco-P; baud rate 115200/9600/4800/2400bps
RS485 port	1 RS485 control port
Audio input port	A-IN, dual channel 3.5mm line input
Audio compression format	AAC, MP3, G.711
Network port	100M network port (10/100 BASE-TX), support network VISCA control protocol
Network protocol	RTSP, RTMP, ONVIF, GB/T28181, RTP multicast
Power connector	HEC3800 power socket (DC12V)
Horizontal rotation range	-170°~170°
Vertical rotation range	-30°~90°
Horizontal rotation speed range	0.1 to 100°/sec
Vertical rotation speed range	0.1~45°/sec
Power adapter	Input AC110V-AC220V output DC12V/1.5A
Input current	1A (maximum)
Power consumption	12W (maximum)
Working temperature	-10°C~50°C
Working humidity	20%~80%, no condensation
Dimension	258x172x169mm (WxHxD)
Weight	1.54kg

HD Video Conference Camera

Embedded software: HD video conference camera embedded software V2.0

TV-620HW (HD 1080p60; HDMI + SDI + IP 3-channel output)



Description

It features completed functions, excellent performance and diversified interfaces. It adopts advanced ISP processing technology and algorithm, which provide vivid image effects, uniform picture brightness, clear light and color layering, high definition and good color reproduction. It supports H.265/H.264 encoding, making the picture smoother and clearer under low bandwidth. It is suitable for various application places such as remote teaching, classroom recording, conference system, remote training, remote medical care, court trial system, emergency command system and so on.

Feature

- * Support H.264HP, realize full HD 1080p ultra-low bandwidth transmission.
- * Using a 1/2.8-inch high-quality HD CMOS sensor with effective 2.07 million pixels, it can achieve high-quality images with a maximum resolution of 1920x1080.
- * The output frame rate can reach 60fps under 1080P.
- * Support AAC audio coding, better sound quality and smaller bandwidth usage.
- * Support local storage function, realize local direct recording of U disk without NVR.
- * The new CMOS image sensor with ultra-high SNR can effectively reduce image noise in low illumination conditions; the 2D and 3D noise reduction algorithms can greatly reduce image noise, and keeps the picture clean and clear even in ultra-low illumination conditions, and the image SNR reaches 55dB or more.
- * Support HDMI output; equipped with a 3G-SDI port, the effective transmission distance is up to 150 meters (1080p30); support HDMI, SDI, network 3-channel synchronous output; support CVBS SD output.
- * High-quality ultra-telephoto lens with 20x optical zoom and 16x digital zoom.

Specification

Model	TV-620HW
Signal system	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD: 480i, 576i
Sensor	1/2.8 inch, CMOS, effective pixel: 2.07 million
Scanning method	Progressive scanning
Lens	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White balance	Auto, Indoor, Outdoor, One-button, Manual, Specified color temperature
BLC	Support
Digital noise reduction	2D&3D digital noise reduction
SNR	≥55dB
Horizontal field of view	60.7° ~ 3.36°
Vertical field of view	34.1° ~ 1.89°
Vertical rotation angle	±170°
Horizontal rotation angle	-30° ~ +90°
Vertical rotation speed range	1.7° ~ 100°/s
Horizontal rotation speed range	1.7° ~ 69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
Local storage	Support
Preset position quantity	255
Preset position accuracy	0.1°
Video coding standard	H.264/MJPEG
Video stream	Main stream, auxiliary stream
Main stream resolution	1920x1080, 1280x720, 1024x576 etc.
Auxiliary stream resolution	1024x576, 720x480, 320x240 etc.
Video bit rate	32Kbps ~ 20480Kbps
Rate control	Variable rate, fixed rate
Frame rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio compression standard	AAC, G711A
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Communication protocol	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB/T28181 multicast, etc.
HD output	1ch, HDMI: Version 1.3; 1ch, 3G-SDI: BNC type, 800mVp-p, 75Ω, SMPTE 424M compliant
SD output	1ch, CVBS: 3.5mm diameter mini jack, 1Vp-p, 75Ω
Network port	1ch, RJ45: 10M / 100M auto-adaptive Ethernet port
Audio port	1ch, Line In, 3.5mm audio interface
USB port	1ch, USB 2.0, Type A socket
Communication port	1 channel, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 channel, RS232 Out: 8-pin mini DIN, maximum distance: 30 meters, for VISCA protocol networking ; 1 channel, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power connector	JEITA type (DC IN 12V)
Input current	1.0A (maximum)
Working temperature	-10°C ~ 40°C
Storage temperature	-40°C ~ 60°C
Power consumption	12W (maximum)
Dimension	169x142x164mm
Net weight	1.35kg

HD Video Conference Camera Embedded software: HD video conference camera embedded software V2.0 TV-6124HK



Description

The UHD video conference camera has a 12x/71° wide-angle 4K lens. It adopts a new generation of ISP technology and supports UHD 4K@30. It supports simultaneous output of 2 channels of HD digital signals through HDMI, LAN or 3G-SDI, LAN. It is suitable for various applications such as remote teaching, classroom recording, conference systems, remote training, remote medical care, court trial systems, emergency command systems and so on.

Feature

- * Adopt a new generation of SONY 1/2.5-inch UHD CMOS sensor with a maximum of 8.51 million pixels; realize 4K (3840x2160) UHD high-quality images; downward compatible with 1080P, 720P and other resolutions.
- * Exclusive custom high-quality true 4K ultra wide-angle lens, 8 million ultra high resolution, 12x optical zoom, Horizontal field of view up to 71°.
- * Support HDMI 1.4b specification, support direct output of 4K uncompressed digital video.
- * Support low-power sleep/wake-up, the power consumption in sleep state is less than 400mW.
- * The new CMOS image sensor with ultra-high SNR can effectively reduce image noise under low illumination conditions; 2D and 3D noise reduction algorithms can greatly reduce image noise, keeping the picture clean and clear even in ultra-low illumination conditions; the image SNR reaches 55dB or more.
- * Support HDMI 1.4b output; equipped with a 3G-SDI port, the effective transmission distance is up to 150 meters (1080p30); support simultaneous output of 2 channels of HD digital signals through HDMI, LAN or 3G-SDI, LAN.
- * Various control methods: RS232, network and USB can be used to control the camera.
- * Support the automatic image flip function, convenient for engineering and use.
- * It can display information such as HDMI and SDI (SDI cannot support 4K) output resolution, frame rate and IP address.

Specification

Model	TV-6124HK
Signal system	4K@30fps, 4K@29.97fps, 4K@25fps, 1080P@60fps, 1080P@50fps, 1080I@60fps, 1080I@50fps, 1080P@30fps, 1080@25fps, 1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps, 720P@59.94fps, 720P@50fps
Sensor	1/2.5 inch, CMOS, effective pixel: 8.51 million
Scanning method	Progressive scanning
Lens zoom	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White balance	Automatic, Indoor, Outdoor, One-button, Manual
BLC	Support
Digital noise reduction	2D&3D digital noise reduction
SNR	≥55dB
Horizontal field of view	71°~ 8.2°
Vertical field of view	42.7°~ 4.5°
Horizontal rotation range	±170°
Vertical rotation range	±30°
Horizontal rotation speed	1.7°~ 76°/s
Vertical rotation speed	0.5°~ 15°/s
Horizontal and vertical flipping	Support
Image freeze	Support
PoE power supply	Support
Face recognition	Not support
Preset position quantity	255
Preset position accuracy	0.1°
Operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Android
Color space/compression	YUY2/H.264/H.265/MJPEG
Video format	YUY2: Max 1080P@30fps H.264 AVC/SVC: Max 2160P@30fps MJPEG: Max 4KP30
USB audio	Support
USB video communication protocol	UVC 1.1~1.5
UVC PTZ control	Support
Video coding standard	H.264/H.265/MJPEG
Main stream resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360, etc.
Auxiliary stream resolution	720x480, 720x408, 640x480, 640x360, 480x320, 320x240, etc.
Video bit rate	H264: ~60Mbps, MJPEG: ~200Mbps
Rate control	Variable bit rate, fixed bit rate
Frequency	50hz: 4k encoding supports a maximum of 30 frames, 1080p encoding supports a maximum of 50 frames, 60hz: 4k encoding supports a maximum of 30 frames, and 1080p encoding supports a maximum of 60 frames
Audio compression standard	AAC, G711A
Audio code rate	48Kbps, 64Kbps, 96Kbps, 128Kbps
Communication protocol	TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T28181, Multicast, etc.
HD output	1channel, HDMI: Version 1.4b; 1ch, 3G-SDI: BNC type, 800mVp-p, 75Ω, SMPTE 424M compliant
Network port	1 channel, RJ45: 10M/100M/1000M adaptive Ethernet, support POE
Audio port	1 channel, Line In/Mic In, 3.5mm audio port
USB port	1 channel, USB3.0, up to 4K@30fps compressed video and 1080P original video output
Communication port	1 channel, RS232 In: 8-pin mini DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 channel, RS232 OUT: 8-pin mini DIN, maximum distance: 30 meters, VISCA protocol networking; 1 channel, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power connector	JEITA type (DC IN 12V)
Input voltage	DC 12V
Input current	1.0A (maximum)
Working temperature	-10°C ~ 40°C
Storage temperature	-40°C ~ 60°C
Power consumption	12W (maximum)
Dimension	238×166.35×131.8mm (W×H×D)
Net weight	1.35kg

HD Video Conference Camera Embedded HD video conference dedicated camera embedded software V2.0 TV-612HZ



Feature

- * Adopt a 1/2.8-inch high-quality sensor with 2.07 million effective pixels, the maximum resolution is 1920x1080 and the output frame rate reaches 60 frames per second.
- * Adopt a 72.5° high-quality ultra-wide-angle lens, support 12x optical zoom and 16x digital zoom.
- * Support AAC audio coding, realize better sound quality and smaller bandwidth usage.
- * Support local storage function, and realize direct local recording on U disk without NVR.
- * Support H.264 encoding, achieve FHD 1080p ultra-low bandwidth transmission.
- * The brand-new CMOS image sensor with ultra-high SNR can effectively reduce image noise in low illumination conditions; using 2D and 3D noise reduction algorithms, even in ultra-low illumination conditions, the picture still keeps clean and clear, and the image SNR is up to 55dB or more.
- * Support HDMI output; equipped with a 3G-SDI interface, the effective transmission distance reaches 150 meters (1080p30); support HDMI + SDI + IP 3-channel simultaneous output; support CVBS SD output.
- * Support POC function, power, video, and control three-wire integration, 1080p HD transmission distance reaches 100 meters or more.
- * Support remote control of the camera through RS232 and RS485 serial port.

Specification

Model	TV-612HZ
Image sensor	1/2.8 inches, CMOS
Effective pixel	2.07 million
Scanning method	Progressive scanning
Signal system	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD: 480i, 576i
Lens	12x, f3.5mm~42.3mm, F1.8~F2.8
Digital zoom	16x
Minimum illumination	0.5Lux@ (F1.8, AGCON)
Shutter	1/30s~1/10000s
White balance	Automatic, indoor, outdoor, one-button, manual, specified color temperature
BLC	Support
Digital noise reduction	2D&3D digital noise reduction
SNR	≥55dB
Horizontal field of view	72.5°~6.9°
Vertical field of view	44.8°~3.9°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation speed range	1.7°~100°/s
Vertical rotation speed range	1.7°~69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
POC power supply	Support
Local storage	Support
Preset position quantity	255
Preset position accuracy	0.1°
Video coding standard	H.264/MJPEG
Video stream	Main stream, auxiliary stream
Main stream resolution	1920x1080, 1280x720, 1024x576, etc.
Auxiliary stream resolution	1280x720, 720x576, 320x240, etc.
Video bit rate	32Kbps~20480Kbps
Rate control	Variable bit rate, fixed bit rate
Frame rate	50Hz: 1fps~50fps, 60Hz: 1fps~30fps
Audio compression standard	AAC
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Communication protocol	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, multicast, etc.
HD output	1 channel, HDMI: version 1.3; 1 channel, 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE424M standard, Support POC (maximum 1080p30)
SD output	1 channel, CVBS: 3.5mm diameter mini jack, 1Vp-p, 75Ω
Network interface	1 channel, RJ45: 10M/100M adaptive Ethernet port
Audio interface	1 channel, LineIn, 3.5mm audio interface
USB interface	1 channel, USB2.0, type A socket
Communication interface	1 channel, RS232In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 channel, RS232Out: 8-pin small DIN, maximum distance 30 meters, VISCA protocol networking use; 1 channel, RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power connector	JEITA type (DCIN12V)/POC
Input voltage	DC12V/POC
Input current	1.0A (maximum)
Working temperature	-10°C~40°C
Storage temperature	-40°C~60°C
Power consumption	12W (maximum)
Package size	222×222×240mm
Product size	169×142×164mm
Gross weight	2.03kg
Net weight	1.35kg

Camera TV-612WT



Feature

- * The built-in 1/2.8-inch 2.07 million-pixel image sensor, with a maximum resolution of 1920x1080 and a maximum output frame rate of 60 frames per second, can present realistic high-definition video images.
- * Using a 72.5° high-quality ultra-wide-angle lens, it supports 12x optical zoom and 10x digital zoom.
- * Using 2X2MIMO+TDMA technology, omnidirectional dual antennas, the maximum transmission rate is 300Mbps, and the transmission distance reaches 100 meters. Support automatic networking function, support automatic allocation of IP addresses on the same network segment as the AP.
- * Support TDMA time division multiple access technology; support encrypted transmission through wireless private network and private protocol, making information transmission more confidential and safer; realize stronger anti-interference ability, high frequency utilization rate, large system capacity, sufficient bandwidth, and high stability.
- * The built-in battery supports continuous power supply for up to 5 hours; the battery power status can be viewed at any time.
- * Using advanced auto-focus algorithm, the lens can complete auto-focus quickly, accurately and stably.
- * The brand-new CMOS image sensor with ultra-high signal-to-noise ratio can effectively reduce image noise in low-light conditions. The application of 2D and 3D noise reduction algorithms also greatly reduces image noise. Even in ultra-low-light conditions, the picture remains clean and clear, and the image signal-to-noise ratio reaches above 50dB.
- * Support ONVIF, GB/T28181, RTSP, RTMP and other network protocols. In RTMP push mode, it can easily link streaming media servers (Wowza, FMS); in RTP multicast mode, it supports network full-command VISCA control protocol.
- * Support up to 255 presets (10 for remote control settings).

Specification

Model	TV-612WT
Image sensor	1/2.8-inch high quality CMOS sensor
Effective pixel	2.07 million, 16:9
SDI output	1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/30/25/59.94/29.97
LAN output	Support up to 1920*1080@60fps
Optical zoom	12x optical zoom lens, f=3.9mm~46.8mm
Viewing angle	6.3° (Narrow Angle)~72.5° (Wide Angle)
Aperture factor	F1.8~F2.4
Digital zoom	10x digital zoom
Minimum illumination	0.5Lux(F1.8,AGC ON)
Digital noise reduction	2D&3D digital noise reduction
White balance	Auto/Manual/One-key White Balance/Specified White Balance
Focus	Auto/Manual/One-key Focus
Aperture	Auto/Manual
Electronic shutter	Auto/Manual
BLC	On/Off
Dynamic range	Off/Dynamic Level Adjustment
Video adjustment	Brightness, hue, saturation, contrast, sharpness, black&white mode, gamma curve
SNR	>50dB
Video output interface	SDI, LAN, WiFi (Radio Frequency)
Image stream	Dual stream output
Video encoding format (LAN)	Support H.265, H.264+
Audio input interface (A-IN)	Dual channel 3.5mm line input
Audio output interface	SDI and LAN audio output
Audio compression format	AAC, MP3, G.711A
Network interface	1000M network port (10/100BASE-TX)
Network protocol	RTSP, RTMP, ONVIF, GB/T28181; support network VISCA control protocol; support remote upgrade, remote restart, remote reset
Control protocol	Protocol: VISCA/Pelco-D/Pelco-P; Baud rate: 115200/9600/4800/2400
Power adapter	Input AC100V-240V; Output DC12V/5A
Power consumption	13W (Maximum)
Pan rotation	-170°~+170°
Tilt rotation	-30°~+90°
Pan speed	0.1~60°/S
Tilt speed	0.1~30°/S
Presets speed	Pan: 60°/S, Tilt: 30°/S
Presets quantity	Support up to 255 presets (10 for remote control)
Frequency range	4900-6100MHz
Transmit power	0-30dBm
RF bandwidth	20M/40MHZ/10MHZ
Modulation mode	OFDM-BPSK, QPSK, 16QAM, 64QAM
Sensitivity	-66dBm@108Mbps; -69dBm@54Mbps; -88dBm@6Mbps
Max transmission distance	Within 100M
Transmission physical rate	300Mbps
DHCP function	The IP address of the same network segment is automatically assigned from the AP side
NAT function	Support
Communication protocol	TCP/IP, UDP
802.1X authentication	Support
Data encryption	Support WPA-PSK/WPA2/CCMP(AES)
Data compression	Support
Wired LAN connection	1x10/100M Base-TX(Cat.5/5E,RJ-45) dual network ports
Wireless LAN connection	Point-to-point, point-to-multipoint, WDS
Working temperature	-10°C~+40°C
Working humidity	20%~80%
Dimension (L*W*D)	149mmx214mmx198mm
Use environment	Indoor
Product size	149*214*198
Net weight	2.5kg

Camera Embedded software: HD video conference dedicated camera software V2.0 TV-612XM



Description

This camera adopts a new generation of ISP image processing algorithm to provide a more perfect white balance and auto exposure function, so that the image output performance has been significantly improved, and the imaging effect is also better. It supports H.265/H.264 encoding, which makes the picture smoother and clearer even under low bandwidth. Characterized by complete functions, excellent performance, and diversified interfaces, it is widely used in educational recording, distance teaching, video conference, live streaming and broadcasting, etc.

Feature

- * Full HD image: Using 1/2.8-inch high-quality image sensor, the maximum resolution reaches 1920x1080, and the output frame rate reaches 60 frames per second.
- * Using 72.5° high-quality optical lens, it supports 12x optical zoom, and 16x digital zoom.
- * Using AI technology and pedestrian re-identification technology, it can accurately detect the location of each person based on information such as the dress, body shape, hairstyle, and facial features of the participants, and realize automatic identification and tracking of speakers, automatic selection, and intelligent privacy blurring of the meeting.
- * Support the extension of 1080P60 ND160/HB technology to achieve ultra-high-resolution image quality and closer to lossless visual effects through network transmission.
- * All video output interfaces have achieved low latency indicators. Support 4-channel video simultaneous output of HDMI, 3G-SDI, USB 3.0, and network, and support 1080P60.
- * The advanced focusing algorithm is used to make the lens focus quickly, accurately and stably.
- * Use exclusive audio processing algorithm to eliminate reverberation; adopt advanced 2D and 3D noise reduction technology to further reduce noise; support EQ adjustment to optimize sound effects; support built-in dual mic pickup, and also support external microphones, wireless speakers, etc. With a 3.5mm audio input interface to meet the sound pickup needs of most scenes.
- * Equipped with 1 channel of 3.5mm audio output interface.
- * Support HDMI, USB 3.0 and network audio output, AAC audio encoding, realizing better sound quality, less bandwidth occupation.
- * The camera can be controlled via RS232 and RS485 serial ports.

Specification

Model	TV-612XM
Video signal system	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor type	1/2.8 inches, CMOS, effective pixels: 2.07 million, progressive
Scanning method	Progressive scanning
Lens	12x, f3.5mm~42.3mm, F1.8~F2.8 [35mm equivalent focal length: 27mm-322mm]
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Electronic shutter	1/30s~1/10000s
White balance	Auto, manual, one-touch, specified color temperature, indoor, outdoor
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
SNR	≥55dB
Horizontal field of view	72.5°~6.9°
Vertical field of view	44.8°~3.9°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation speed	1.7°~100°/s
Vertical rotation speed	1.7°~69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
Presets quantity	255
Presets accuracy	0.1°
Audio parameters	
Digital audio pickup	Built-in dual microphone array, 100Hz to 16KHz frequency response
Analog audio input	Support 3.5mm Line-In
Digital audio output	Support HDMI, USB, LAN and other audio output
Analog audio output	Support 3.5mm Line-Out
USB parameters	
Color space/Compression	YUY2/MJPEG/H.264
Video format	Support various video formats with different frame rates and resolutions, up to 1080P60 YUY2 output USB video communication protocol UVC 1.1 or UVC1.5 USB audio 32K sampling rate, support UAC2.0 UVC PTZ control, support IPC features (IP Camera)
Video coding standard	H.264/H.265
Video stream	First code stream, Second code stream
First stream resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second stream resolution	1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180
Video bit rate	32Kbps~102400Kbps
Bit rate control	Variable bit rate, fixed bit rate
Frame rate	1fps~60fps
Audio compression standard	AAC
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Network protocol	NDI HB, NDI HX, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, SRT, etc.
Input and output interface	USB interface, 1 USB 3.0: Type A socket
HD output	1CH, HDMI: Version 1.3
Network interface	1CH, 3G-SDI: BNC type, 800mVp-p, 75Ω, in line with SMPTE 424M standard
Audio interface	1CH, RJ45: 10M/100M/1000M adaptive Ethernet port, support PoE
Communication interface	1CH, Line In, 3.5mm audio jack; 1CH, Line Out, 3.5mm audio jack 1CH, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1CH, RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking 1CH, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power interface	JEITA type (DC IN 12V)
Input voltage	DC 12V, PoE (802.3af)
Input current	1000mA
Working temperature	0°C~40°C
Storage temperature	-40°C~60°C
Power consumption	12W
Dimension (L*W*H)	146*169*168mm
Net weight	About 1.5kg
MTBF	30000H

Camera

Embedded software: HD video conference
dedicated camera software V2.0

TV-620XM



Description

This camera adopts a new generation of ISP image processing algorithm to provide a more perfect white balance and auto exposure function, so that the image output performance has been significantly improved, and the imaging effect is also better. It supports H.265/H.264 encoding, which makes the picture smoother and clearer even under low bandwidth. Characterized by complete functions, excellent performance, and diversified interfaces, it is widely used in educational recording, distance teaching, video conference, live streaming and broadcasting, etc.

Feature

- * Full HD image: Using 1/2.8-inch high-quality image sensor, the maximum resolution reaches 1920x1080, and the output frame rate reaches 60 frames per second.
- * Using 60.7° high-quality optical lens, it supports 20x optical zoom, and 16x digital zoom.
- * Using AI technology and pedestrian re-identification technology, it can accurately detect the location of each person based on information such as the dress, body shape, hairstyle, and facial features of the participants, and realize automatic identification and tracking of speakers, automatic selection, and intelligent privacy blurring of the meeting.
- * Support the extension of 1080P60 NDI@HB technology to achieve ultra-high-resolution image quality and closer to lossless visual effects through network transmission.
- * All video output interfaces have achieved low latency indicators. Support 4-channel video simultaneous output of HDMI, 3G-SDI, USB 3.0, and network, and support 1080P60.
- * The advanced focusing algorithm is used to make the lens focus quickly, accurately and stably.
- * Use exclusive audio processing algorithm to eliminate reverberation; adopt advanced 2D and 3D noise reduction technology to further reduce noise; support EQ adjustment to optimize sound effects; support built-in dual mic pickup, and also support external microphones, wireless speakers, etc. With a 3.5mm audio input interface to meet the sound pickup needs of most scenes.
- * Equipped with 1 channel of 3.5mm audio output interface.
- * Support HDMI, USB 3.0 and network audio output, AAC audio encoding, realizing better sound quality, less bandwidth occupation.
- * The camera can be controlled via RS232 and RS485 serial ports.

Specification

Model	TV-620XM
Video signal system	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor type	1/2.8 inches, CMOS, effective pixels: 2.07 million, progressive
Scanning method	Progressive scanning
Lens	20x, f4.42mm~88.5mm, F1.8~F2.8 [35mm equivalent focal length: 34mm-674mm]
Digital zoom	16x
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Electronic shutter	1/30s~1/10000s
White balance	Auto, manual, one-touch, specified color temperature, indoor, outdoor
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
SNR	≥55dB
Horizontal field of view	60.7°~3.36°
Vertical field of view	34.1°~1.89°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation speed	1.7°~100°/s
Vertical rotation speed	1.7°~69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
Presets quantity	255
Presets accuracy	0.1°
Audio parameters	
Digital audio pickup	Built-in dual microphone array, 100Hz to 16KHz frequency response
Analog audio input	Support 3.5mm Line-In
Digital audio output	Support HDMI, USB, LAN and other audio output
Analog audio output	Support 3.5mm Line-Out
USB parameters	
Color space/Compression	YUY2/MJPEG/H.264
Video format	Support various video formats with different frame rates and resolutions, up to 1080P60 YUY2 output USB video communication protocol UVC 1.1 or UVC1.5 USB audio 32K sampling rate, support UAC2.0 UVC PTZ control, support IPC features (IP Camera)
Video coding standard	H.264/H.265
Video stream	First code stream, Second code stream
First stream resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second stream resolution	1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180
Video bit rate	32Kbps~102400Kbps
Bit rate control	Variable bit rate, fixed bit rate
Frame rate	1fps~60fps
Audio compression standard	AAC
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Network protocol	NDI HB, NDI HX, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, SRT, etc.
Input and output interface	USB interface, 1 USB 3.0: Type A socket
HD output	1CH, HDMI: Version 1.3
Network interface	1CH, 3G-SDI: BNC type, 800mVp-p, 75Ω, in line with SMPTE 424M standard
Audio interface	1CH, RJ45: 10M/100M/1000M adaptive Ethernet port, support PoE
Communication interface	1CH, Line In, 3.5mm audio jack; 1CH, Line Out, 3.5mm audio jack 1CH, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1CH, RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking 1CH, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power interface	JEITA type (DC IN 12V)
Input voltage	DC 12V, PoE (802.3af)
Input current	1000mA
Working temperature	0°C~40°C
Storage temperature	-40°C~60°C
Power consumption	12W
Dimension (L×W×H)	146×169×168mm
Net weight	About 1.5kg
MTBF	30000H

Camera

Embedded software: HD video conference
dedicated camera software V2.0

TV-630XM



Description

This camera adopts a new generation of ISP image processing algorithm to provide a more perfect white balance and auto exposure function, so that the image output performance has been significantly improved, and the imaging effect is also better. It is widely used in educational recording, distance teaching, video conference, live streaming and broadcasting, etc.

Feature

- * Full HD image: Using 1/2.8-inch high-quality image sensor, the maximum resolution reaches 1920x1080, and the output frame rate reaches 60 frames per second.
- * Using 60.7° high-quality optical lens, it supports 30x optical zoom, and 16x digital zoom.
- * Using AI technology and pedestrian re-identification technology, it can accurately detect the location of each person based on information such as the dress, body shape, hairstyle, and facial features of the participants, and realize automatic identification and tracking of speakers, automatic selection, and intelligent privacy blurring of the meeting.
- * Support the extension of 1080P60 NDI@HB technology to achieve ultra-high-resolution image quality and closer to lossless visual effects through network transmission.
- * All video output interfaces have achieved low latency indicators. Support 4-channel video simultaneous output of HDMI, 3G-SDI, USB 3.0, and network, and support 1080P60.
- * The advanced focusing algorithm is used to make the lens focus quickly, accurately and stably.
- * Use exclusive audio processing algorithm to eliminate reverberation; adopt advanced 2D and 3D noise reduction technology to further reduce noise; support EQ adjustment to optimize sound effects; support built-in dual mic pickup, and also support external microphones, wireless speakers, etc. With a 3.5mm audio input interface to meet the sound pickup needs of most scenes.
- * Support SDI, HDMI, USB 3.0 and network audio output, AAC audio encoding, realizing better sound quality, less bandwidth occupation.

Specification

Model	TV-630XM
Video signal system	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor type	1/2.8 inches, CMOS, effective pixels: 2.07 million
Scanning method	Progressive scanning
Lens	30x, f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Minimum illumination	0.5Lux @ (F1.8, AGC ON)
Electronic shutter	1/30s ~ 1/10000s
White balance	Auto, manual, one-touch, specified color temperature, indoor, outdoor
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
SNR	≥55dB
Horizontal field of view	60.7°~2.28°
Vertical field of view	34.1°~1.28°
Horizontal rotation range	±170°
Vertical rotation range	-30°~+90°
Horizontal rotation speed	1.7° ~ 100°/s
Vertical rotation speed	1.7° ~ 69.9°/s
Horizontal and vertical flipping	Support
Image freeze	Support
Presets quantity	255
Presets accuracy	0.1°
Digital audio pickup	Built-in dual microphone array, 100Hz to 16KHz frequency response
Analog audio input	Support 3.5mm Line-In
Digital audio output	Support HDMI, USB, LAN and other audio output
Analog audio output	Support 3.5mm Line-Out
Supported OS	Windows7 (only supports UVC1.1 features), Windows8, Windows10, Windows11, MacOS X, Linux2.4.6 and above, and Android needs to include the version of UVC-related drivers
Color space/Compression	YUY2/MJPEG/H.264
Video format	Support various video formats with different frame rates and resolutions, up to 1080P60 YUY2 output
USB video communication protocol	UVC 1.1 and UVC1.5
USB audio	32K sampling rate, support UAC2.0
UVC PTZ control	Support
Video coding standard	H.264/H.265
Video stream	First code stream, Second code stream
First stream resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second stream resolution	1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180
Video bit rate	32Kbps ~ 102400Kbps
Bit rate control	Variable bit rate, fixed bit rate
Frame rate	1fps ~ 60fps
Audio compression standard	AAC
Audio bit rate	96Kbps, 128Kbps, 256Kbps
Support protocol	FULL NDI, NDI@HX2, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, SRT, GB/T 28181 etc.
USB interface	1CH USB 3.0: Type A socket
HD output	1CH, HDMI: Version 1.3
Network interface	1CH, 3G-SDI: BNC type, 800mVp-p, 75Ω, in line with SMPTE 424M standard
Audio interface	1CH, RJ45: 10M/100M/1000M adaptive Ethernet port, support PoE
Communication interface	1CH, Line In, 3.5mm audio jack; 1CH, Line Out, 3.5mm audio jack 1CH, RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1CH, RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking 1CH, RS485: 2-pin Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power interface	JEITA type (DC IN 12V)
Input voltage	DC 12V, PoE (802.3af)
Input current	1000mA (MAX)
Working temperature	0°C ~ 40°C
Storage temperature	-40°C ~ 60°C
Power consumption	12W (MAX)
MTBF	30000h
Dimension (L×W×H)	146mm*169mm*168mm
Net weight	1.5Kg

Camera

HD video conferencing dedicated camera built-in software V2.0

TV-6124HU



Description

4K camera with advanced technologies such as PTZ control, audio and video storage, mechanical control, electronically controlled transmission, streaming media transmission protocol, noise reduction processing, automatic exposure, automatic white balance, autofocus, digital noise reduction and other advanced technologies. At the same time, a variety of output methods are provided for collection and use by post-stage systems to achieve 4K30 ultra-high-definition video output and provide ultra-high-definition images. It is widely used in conference rooms, lecture halls, classrooms, training rooms, command centers and other application places.

Feature

- * Adopting a 1/2.8-inch high-quality UHD CMOS sensor with a maximum of 8.46 million effective pixels, with 12x optical zoom and a horizontal field of view of up to 72.5°. Support 4K ultra-high-resolution high-quality images and is backward compatible with multiple resolutions such as 1080P and 720P.
- * Support HDMI1.4 format and can directly output 4K@30fps uncompressed digital video. Support HDMI, 3G-SDI, UVC, LAN output, support up to three channels of video output at the same time, support up to 4K@30fps (3G-SDI supports up to 1080P@60fps) and support backward compatible output.
- * The network interface supports 10M/100M adaptive Ethernet and POE.
- * Support various control protocols such as Visca, Pocol-d/Pocol-p, Onvif, GB/T28181, etc., and can remotely control the camera through infrared remote control, RS-232, RS-485 and network.
- * With a high signal-to-noise ratio CMOS image sensor, it can effectively reduce image noise in low illumination situations. The simultaneous application of 2D and 3D noise reduction algorithms greatly reduces image noise. Even in ultra-low illumination conditions, the image is still clean and clear, and the image signal-to-noise ratio is as high as over 50dB.
- * The software runs on the Linux operating system, and the system is reliable and stable. Support Chinese or English version, choose to install Chinese or English version according to the operating system environment. Support PC web page control, web page preview adjustment, 256 preset position setting control, streaming media and network camera settings.
- * Support audio collection with a maximum sampling rate of 48K, and supports AAC and G711A audio compression standard encoding output.
- * Support H.264, H.265, MJPEG video encoding standards, dual stream output, and the highest stream resolution can support 3840×2160 output. Support horizontal flipping and vertical flipping of images to facilitate project installation and use. Support OSD menu display interface, displays current time, and displays IP when booting.
- * Multiple streaming media transmission protocols, supporting network audio and video transmission protocols such as RTSP, RTMP, SRT, HTTP, GB/T28181, Onvif, etc.
- * Support cross-network segment search and configuration function for all cameras in the network. That is, in a self-organized LAN or a communication network, you only need to connect the configuration computer to the network, open the web configuration background, and automatically search for all online cameras for quick configuration. This greatly reduces the workload of implementation personnel and improves user experience.
- * Support inserting TF memory card to record and store audio and video files, and supports recording in multiple video formats such as MP4, TS, AVI, MKV, etc.

Specification

Model	TV-6124HU
Output signal	4K@30fps, 1080P@60fps, 1080P@50fps, 1080P@30fps, 1080@25fps, 720P@60fps, 720P@50fps
Image Sensor	1/2.8"CMOS
Sensor pixels	Effective pixels: 8.46 million
Focal distance	f=4.14mm~47.08mm
Aperture coefficient	F1.6~F2.8
Optical zoom	12x
Scanning method	Line by line
Horizontal angle	72.5°~6.3°
Digital zoom	8x
Focus system	Automatic, manual, one-key trigger, PTZ trigger
Image gain	Automatic / manual
White balance	Automatic, manual, one-click white balance, static color temperature
BLC	Support
Wide dynamic range	Support
Exposure control	Auto, manual, shutter priority, aperture priority, brightness priority
SNR	≥50dB
Menu	English Chinese
Horizontal range	-170°~+170°
Vertical range	-30°~+90°
Horizontal rotation speed	0.1°~120°/s
Vertical rotation speed	0.1°~90°/s
Flip, horizontal flip	Support
Number of preset points	256
CPU	ARM Cortex-A53 dual-core architecture SSD268G, main frequency 1.2GHz
Memory	8GB
Network card	1 100M network card, support POE power supply
Video output	1×HDMI interface, 1×SDI interface, 1×USB interface
Other	5*serial port (2*232 IN serial port, 2*232 OUT serial port, 1*485 serial port), 1*audio input, 1*USB2.0 interface, 1*TF card interface
Voltage input:	100-240V,50/60Hz
Voltage output:	12V/1.5A
Dimensions (L×W×H)	220.2×181×145.3mm
Working environment	Working temperature 0~45°C, working humidity 10%RH~90%RH (non-condensing)
Storage environment	-10°C~60°C
Vertical motor operating voltage	12V
Horizontal motor operating voltage	12V

Camera

TV-6124Q



Description

It adopts a cylindrical integrated streamlined design, has a built-in 4K ultra-high-definition camera, and integrates a TOF and 12x optical zoom lens, which can automatically track the subject and achieve fast and accurate focusing. It adopts advanced ISP processing technology and algorithm, which provide vivid image effects, uniform picture brightness, clear light and color layering, high definition and good color reproduction, and the best viewing effect is presented. It is suitable for various application scenarios such as distance education and practical training recording and broadcasting.

Feature

- * 4K ultra-high-definition image: Using a 1/2.8-inch high-quality CMOS image sensor, the maximum resolution can reach 3840×2160, and the output frame rate can reach up to 30 frames/second, presenting clear and lifelike high-definition video, vividly showing the expressions and movements of characters.
- * Using high-quality optical lens, the optical zoom reaches 12 times.
- * The advanced auto-focus algorithm enables the lens to complete auto-focusing quickly, accurately and stably.
- * Adopting laser rangefinder technology, which has an auxiliary focusing function to make the focusing speed faster and more stable.
- * The low-noise CMOS effectively ensures the ultra-high SNR of the camera video. Adopt advanced 2D and 3D noise reduction technology to further reduce noise while ensuring image clarity.
- * With multi-function control button panel, which can conveniently control common functions such as zoom, focus, brightness adjustment, freezing, and menu.
- * Support 3G-SDI, HDMI and network audio and video output, uses AAC audio encoding, supports 48000 sampling frequency, has better sound quality and consumes less bandwidth.
- * The LAN interface supports POE power supply.
- * Multiple network protocols: support ONVIF, GB/T28181, RTSP, RTMP, VISCA OVER IP, IP VISCA, RTMPS, SRT protocols; support RTMP push mode, easily connect to streaming media servers (Wowza, FMS); support RTP multicast mode.

Specification

Model	TV-6124Q
Image sensor	1/2.8-inch high-quality 4K CMOS sensor
Effective pixel	8.29 million, 16:9
HDMI interface video format	3840*2160P30/25;1080P60/50/30/25/59.94/29.97;720P60/50/59.94fps
3G-SDI interface video format	1080P60/50/30/25/59.94/29.97;720P60/50/59.94fps
LAN interface video format	H264 3840*2160P30/25;1080P60/50/30/25/59.94/29.97;720P60/50/59.94fps
Optical zoom	12x optical zoom lens, f=3.9mm~46.8mm
Horizontal viewing angle	7.42°(T)~ 78.58°(W)
Vertical viewing angle	6.48°(T)~ 70.82°(W)
diagonal viewing angle	3.66°(T)~ 42.72°(W)
Aperture factor	F1.6 – F2.8
Minimum illumination	0.5Lux(F1.8, AGC ON)
Digital noise reduction	2D & 3D digital noise reduction
White balance	Manual/automatic/one-click white balance/specified color temperature
Focus	Automatic/manual/one-key focusing, supports TOF laser ranging module, assisted focusing
Shutter, Aperture	1/25-1/20000, automatic/manual
BLC	on/off
Dynamic range	Off/Dynamic Level Adjustment
Video adjustment	Brightness, chroma, saturation, contrast, sharpness, black and white mode
SNR	≥50dB
Button panel functions	Zoom in, zoom out, brightness+, brightness-, freeze, mode, menu
Video output interface	HDMI, SDI, LAN
Audio input interface	Line IN
Image stream	Dual stream output
Control interface	RS485, 2PING Phoenix terminal, supports VISC protocol
Video compression format	H.264
Network Interface	100M network port (10/100BASE-TX) supports PoE power supply and audio and video output
Network protocol	RTSP, RTMP, ONVIF, GB/T28181; support network VISCA control protocol; support remote upgrade, remote restart, remote reset
Power interface	5.0 card line socket (DC12V)
Power Adapter	Input AC110V-AC220V output DC12V/2A
Power consumption	25W
Input voltage	DC12V±10%
Usage environment	Indoor
Storage temperature	-10°C~+60°C
Storage humidity	20%~95%, no condensation
Operating temperature	-10°C~+50°C
Operating humidity	20%~80%, no condensation
Product size (L*W*H)	157.7*73.3*85mm
Package size	535*385*440mm
Net weight	0.69 kg
Gross weight	1.12 kg

4K Camera TV-6124UK



Description

4K Ultra HD USB camera; suitable for remote education, teaching recording, conference system, remote training, telemedicine, court trial system, emergency command system, etc.

Feature

- * Support 4K ultra-high definition, ultra-high definition and ultra-high resolution, the maximum can provide 4K@30fps/25fps image encoding output, and backward compatible with 1080p, 720p and other resolutions.
- * Full-featured USB 3.0 interface, which integrates power supply, video and audio, and can support 1 USB and 1 HDMI at the same time.
- * The wide-angle field of view is up to 84° (integrated auto-focus function), small lens, big vision. At the same time, it supports EPTZ, which can be used to brake without moving, and it can be enlarged and seen more clearly.
- * Support WDR, easy to deal with different lighting environment, even harsh environment can restore the most real you.
- * The brand-new CMOS image sensor with performance-to-noise ratio at starlight level can effectively reduce image noise under low illumination conditions. At the same time, 2D and 3D noise reduction algorithms are applied to greatly reduce image noise, even under ultra-low illumination conditions. Keep the picture clean and clear, and the image signal-to-noise ratio is up to 55dB or more.
- * Standard equipped with damping rotating shaft bracket; suitable for the monitor on the market, easy installation, stable and reliable performance.

Specification

Model	TV-6124UK
Sensor	1/2.5-inch, CMOS, effective pixels: 82.9 million
Scanning method	Line by line
Lens mount	M12
Lens one	Focal length: f = 3.5mm, horizontal field angle: 84 °
Auto focus	Support
Minimum illumination	0.05 Lux @ (F1.8, AGC ON)
Electronic shutter	1 / 30s ~ 1 / 10000s
White balance	Automatic, indoor, outdoor, one-click, manual, specified color temperature
Camera bracket	Standard damping rotating bracket
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
USB feature	
Operating system	Windows® 7 (only supports 1080p and below), Windows 8.1, Windows 10 or more advanced system, macOS™ 10.10 or higher, Google™ Chromebook™ Version 29.0.1547.70 or more advanced system, Linux (UVC support required)
Hardware requirement	2.4 GHz Intel® Core 2 Duo or more advanced processor, 2 GB or larger memory, USB 2.0 interface (4K requires USB 3.0)
Color space/compression	H.264 / MJPEG / YUY2 / NV12
Video format	4k @ 30fps / 25fps, 1080p @ 30fps / 25fps, 720p @ 30fps / 25fps, 960x540p @ 30fps / 25fps, 640x360p @ 30fps / 25fps, etc.
USB video communication protocol	UVC 1.1
UVC PTZ control	Support (EPTZ)
Input and output interface	
USB interface	1 channel, USB 3.0: Type B, female
HDMI interface	1 channel, HDMI: version 1.4
General specification	
Input voltage	5V (USB powered)
Input current	600mA (MAX)
Working temperature	-10 ° C ~ 40 ° C
Storage temperature	-40 ° C ~ 60 ° C
Power consumption	3.0W (MAX)
Dimension	194mm x 34mm x 42mm (without bracket)
Net weight	0.34kg
MTBF	30000h

Camera TV-M620



Description

USB high-definition camera is suitable for remote education, teaching, conference system, distance training, telemedicine and other applications.

Feature

- * Support 1080P HD, provide a maximum of 1080P@30fps/25fps image encoding output, backward compatible with 720P and other resolution. Support wide field of view, the maximum horizontal field of view can reach more than 110°.
- * Support full-featured USB 2.0 interface, integrate power supply, video and audio.
- * Support built-in microphone, omnidirectional pickup, and the pickup distance is up to 3 meters. Support unique noise suppression algorithm to perfectly present the voice.
- * Without mechanical rotating device to realize the more reliable and durable PTZ function with more accurate rotation accuracy and no noise; support 4X digital zoom function.
- * The new CMOS image sensor with ultra-high SNR can effectively reduce image noise under low illumination conditions. It uses 2D and 3D noise reduction algorithms to greatly reduce image noise. Even under ultra-low illumination, the picture remains clean and clear, and the image SNR is greater than 55dB.
- * Equipped with damping rotation bracket, which is suitable for almost 100% of the monitors on the market, easy to install, stable and reliable.

Specification

Model	TV-M620
Sensor type	1/2.8 inch, CMOS, effective pixels: 2.07 million
Scanning method	Line by line
Len mount type	M12
Len	Focal length: f=2.2mm, horizontal field of view: 110°
Minimum illumination	0.5 Lux @ (F1.8, AGC ON)
Electronic shutter	1/30s ~ 1/10000s
White balance	Automatic, manual
Camera mount	Standard damping rotation bracket
Digital noise reduction	2D, 3D digital noise reduction
BLC	Support
Supported operating system	Windows® 7 (only support 1080p and below), Windows 8.1, Windows 10 or higher, macOS™ 10.10 or higher, Google™ Chromebook™ Version 29.0.1547.70 or higher, Linux (require UVC support)
Color space/compression	H.264/MJPEG/YUY2
Video format	1080p@30fps/25fps, 720p@30fps/25fps, 960x540p@30fps/25fps, 640x360p@30fps/25fps
USB video communication protocol	UVC 1.1
UVC PTZ control	Support (ePTZ)
USB interface	USB 2.0: Type A
Input voltage	5V (USB powered)
Power consumption	1W
Operating temperature	-10°C~40°C
Storage temperature	-40°C~60°C
Product size (L*W*H)	194mm*34mm*42mm
Net weight	0.18kg

USB Camera TV-MU610



Feature

- * Support 1080P Full HD, provide a maximum of 1080P@30fps/25fps image encoding output, backward compatible with 720P and other resolution.
- * Support wide field of view, horizontal field of view up to 83°.
- * Support full-featured USB 2.0 port, integrate power supply, video and audio.
- * Built-in microphone, omnidirectional pickup, and the pickup distance is up to 6 meters.
- * Support original noise suppression algorithm.
- * The new CMOS image sensor with super high SMR of starlight can effectively reduce image noise in low illumination conditions; 2D and 3D noise reduction algorithms can greatly reduce image noise, keeping the picture clean and clear even in ultra-low illumination conditions; the image SNR is as high as 55dB or more.
- * Come with a standard damping rotary shaft bracket, suitable for 100% of the displays on the market, easy to install, stable and reliable.

Specification

Model	TV-MU610
Sensor	1/2.7 inches, CMOS, effective pixel: 2.07 million
Scanning method	Progressive scanning
Lens type	M12
Lens 1	Focal length: f=3.2mm, horizontal field of view: 83°
Minimum illumination	0.5 Lux @ (F2.0, AGC ON)
Electronic shutter	1/30s ~ 1/10000s
White balance	Auto, manual, specified color temperature
Camera bracket	Standard damping rotary shaft bracket
Digital noise reduction	2D&3D digital noise reduction
BLC	Support
Operating system	Windows® 7 (1080p and below only), Windows 8.1, Windows 10 or higher macOS™ 10.10 or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux (UVC support is required)
Color space/compression	YUY2 / H.264 / MJPEG
Video format	1080p@30fps/25fps, 720p@30fps/25fps, 960x540p@30fps/25fps, 640x360p@30fps/25fps
USB video communication protocol	UVC 1.1
USB port	1 USB 2.0 port
Input voltage	5V (USB powered)
Working temperature	0°C ~ 40°C
Power consumption	1W
Dimension	118×37.2×30.8mm
Net weight	0.093kg

Camera TV-MU650X



Description

Integrated 4K UHD camera, beam forming microphone, and full-range speakers, TV-MU650X is specially designed for small and medium conference rooms, and micro-collaboration spaces with 4 to 6 people, helping enterprises to explore the use potential of internal small and micro meeting spaces. On the one hand, meetings can be held more efficiently, and on the other hand, rental costs can be saved.

Feature

- * Using 1/2.5-inch and 8.51 million-pixel high-quality UHD CMOS sensor, with 4K (3840x2160)@30fps UHD clear images, and backward compatible with 1080P, 720P and other resolutions.
- * 121° wide field of view (110° horizontal field of view), 5x zoom, optical lens specially tailored for conference scenes, built-in motorized pan/tilt (pan and tilt ±15° range of motion), which is easier to shoot conference personnel clearly.
- * Built-in beam forming microphone, pickup distance of 6 meters, the low distortion lateral beam forming algorithm can guide the microphone directly to the speaker, for better sound, and clearer communication.
- * Built-in audio 3A algorithm (AEC/AGC/ANS), full-duplex dialogue, can meet the communication needs of different room structures, whether sitting at the conference table, standing, people can comfortably and clearly communicate.
- * Built-in intelligent analysis algorithm, identify the position according to the sound, automatically select the participants, automatically track the speaker, and switch the speaker screen to ensure that speaker is always clearly on the screen.
- * Flexibly provide various installation options such as table top, wall hanging, TV/display hanging, and so on, which is easier and faster to install and deploy in crowded conference rooms.

Specification

Model	TV-MU650X
Video resolution	4K@30fps, 1080P@30fps, 720P@60/30fps, etc.
Sensor	1/2.5 inch, CMOS, effective pixels: 8.51 million
Optical lens	121°(DFOV), 110°(HFOV), 5x zoom, pan/tilt ±15°
PTZ	Mechanical PTZ (MPT) + Electronic PTZ (EPTZ)
Digital noise reduction	2D&3D digital noise reduction
SNR	≥55dB
BLC	Support
Full-range speaker	96 dB SPL at 0.5 m
Microphone array	Beam forming microphone with pickup distance of 6 meters
Extended MIC	Support (optional)
Connection type	USB 3.0, backward compatible with USB2.0
Color space/compression	MJPEG/YUY2
USB audio	32K sampling rate, support UAC1.0
USB video communication protocol	UVC 1.1
UVC PTZ control	Support
USB interface	1*USB3.0, Type C ; 1*USB2.0, Type A ;
Wireless	Bluetooth data communication (Bluetooth 5.0)
Installation method	Support desktop, wall-mounted, TV-mounted and other installation options
Standard cable	USB cable
Security	Anti-theft lock jack
Power supply	DC 12V, 2A (MAX)
Operating temperature	0°C~40°C
Storage temperature	-40°C~60°C
Product size (L*W*H)	600mm*117mm*135mm
Net weight	2.5kg

Microphone
TS-336USB
TS-338USB



TS-336USB



TS-338USB

Specification

Model	TS-336USB	TS-338USB
Transduction method	Capacitive	Capacitive
Directivity	Cardioid Directivity	Cardioid Directivity
Frequency response	100Hz~16kHz	40Hz~16kHz
Output impedance	200Ω	75Ω
Sensitivity	-42dB±2dB	-40dB±2dB
Power supply	USB powered	USB powered
Switch	Electronic touch	Electronic touch
Microphone rod	415mm	445mm
Weight	0.62kg	0.73kg
Base dimension (L*W*H)	110*130*34mm	115*140*30mm

Inverted Bracket
TV-610DZ
TV-620DZ



TV-610DZ



TV-620DZ

Specification

Model	TV-610DZ	TV-620DZ
Dimension	164.3×141.5×12.4mm	234×154×10mm
Weight	0.45kg	0.75kg

Bracket
TS-L7515



Specification

Model	TS-L7515
Dimension	75-150cm
Surface treatment	High temperature silver spray paint
Material	Aluminium alloy
Rotation angle	360°
Load bearing	5KG

Controller TV-620K



Feature

- * Control camera (or PTZ) rotation, zoom, aperture, focus and other parameter settings.
- * Support PELCO-D, PELCO-P, VISCA control protocol.
- * LCD display, support Chinese and English menus, with button sound prompts.
- * 3D control lever, flexible control.
- * 2D keying, accurate at every speed.
- * Commonly used special function key selection definition.
- * Communication rate: 1200/2400/4800/9600 bit/s.
- * Adopt RS485, RS422, RS232 multiple interface control signals.
- * Max communication distance: 1200M (0.5MM twisted pair).

Specification

Model	TV-620K
Display	12864 LCD display
Control lever	3D control lever, automatic return to zero
Button	Normally open contact type
Temperature	-7°C ~ 49°C
Humidity	10%~90%
Dimension	340×180×50mm (L×W×H)
Weight	1.5Kg
Input voltage	DC 12V
Rated power	5W

Adapter Box TV-62C



Feature

- * Omnidirectional microphone dedicated adapter box, used for network port to RCA port.
- * With 1*RJ45 MIC IN, 1*RCA LINE IN, 1*RCA LINE OUT.
- * The frequency response range supports 50Hz~20KHz.
- * Support DC12V power supply.

Specification

Sensor type	TV-62C
Frequency response	50Hz~20KHz
Interface	1*RJ45 MIC IN, 1*RCA LINE IN, 1*RCA LINE OUT
Power supply	DC12V-1A
Dimension (L*W*H)	60mm*53mm*26mm

Microphone

TV-63 (Used with TV-61R/TV-62T, cannot be used alone)



Audio characteristics

- * Microphone frequency response: 100Hz-20KHz.
- * Microphone pickup range: ≥ 5 meters.
- * Microphone pickup angle: 360 degrees.
- * Microphone quantity: 1.

Interface characteristics

- * Microphone interface: RJ9 interface × 1.

Electrical characteristics

- * Power supply: main microphone power supply.

Working environment

- * Reverberation time: <0.5S.
- * Noise level: <-48 dBA.

Physical characteristics

- * Housing: black.
- * Working temperature: 0°C~50 °C.
- * Working humidity: 20% -85%.
- * Dimension(φ): 10.0×4.0cm.
- * Weight: 1kg.

Feature

- * Adopt an integrated design and simple structure, built-in 1 digital microphone, 360° omnidirectional pickup, and the maximum pickup distance reaches 5 meters.
- * One-key mute switch with clear LED status indicator.

Voice characteristics

- * Full duplex echo cancellation depth: ≥ 65dB.
- * Full duplex echo cancellation time: 500ms.
- * Two-way noise compression: ≥ 18dB.
- * Line echo cancellation depth: ≥ 25dB.
- * Line echo cancellation time: 32ms.

**Bracket
TV-610TP**



Specification

Model	TV-610TP
Bracket size (LxWxTH))	700mm×70mm×55mm
Pallet size(LxWxTH))	292mm×222mm×20mm
Weight	0.8KG

**Receiver
TV-612WR**



Specification

Model	TV-612WR
Working frequency	4900-6100MHz
Antenna gain	3/5/8db
Omnidirectional transmission distance	About 200M
Physical rate	300Mbps
RF bandwidth	20M/40MHZ/10MHZ
Output power	0-30dBm
Sensitivity	-66dBm@108Mbps; -69dBm@54Mbps; -88dBm@6Mbps
Modulation technique	OFDM-BPSK, QPSK, 16QAM, 64QAM
Transparent bridging	Support
DHCP function	Custom network segment
NAT function	Support
Communication protocol	TCP/IP, UDP
802.1X authentication	Support
Data encryption	Support WPA-PSK/WPA2/CCMP(AES)
Data compression	Support
Wired LAN connection	1x10/100M Base-TX(Cat,5/5E,RJ-45) dual network ports
Wireless LAN connection	Point-to-point, point-to-multipoint, WDS
Antenna	SMA interface
Power supply	DC5V
Max power consumption	<10W
Memory	64MB DRAM 16MB Flash
Net weight	250g
Dimension (L*W*D)	135.5*65*25
Working temperature	-10°C~+40°C
Applicable environment	Indoor audio and video transmission

**USB Omnidirectional Microphone
TV-S63B**



Specification

Model	TV-S63B
Speech technology	Deep echo cancellation, dynamic noise suppression, automatic gain control technology
Microphone frequency response	100Hz~22kHz
Speaker frequency response	170Hz~22kHz
Pickup range	Φ 6 meters
Speaker volume	85dB
Interface	USB interface*1, LINE IN/OUT interface*1, headset 3.5mm interface*1
Power supply	USB standard, 5V-1A
Working temperature	4°C~50°C
Storage temperature	-10°C~50°C
Dimension	141*42mm
Colour	Black

**USB Omnidirectional Microphone
TV-S63W**



Specification

Model	TV-S63W
Speech technology	Deep echo cancellation, dynamic noise suppression, automatic gain control technology
Microphone frequency response	100Hz~22kHz
Speaker frequency response	170Hz~22kHz
Pickup range	φ6 meters
Speaker volume	85dB
Port	USB port*1, LINE IN/OUT port*1, headphone 3.5mm port*1
Power supply	USB standard, 5V-1A
Standby time	7 days
Working hours	3.5 hours
Battery capacity	2000mAH
Working temperature	4°C~50°C
Storage temperature	-10°C~50°C
Dimension	141*141*42mm
Colour	White

Microphone TV-S63WB



Description

It is a professional USB HD omnidirectional microphone with 3 built-in microphones and supports wireless 2.4G, allowing for convenient and pleasant remote communication anytime and anywhere. Equipped with a new network conference system, it features powerful functions and simple operations. Applying the five EACOME advanced voice processing technologies, it achieves clear and bright sound quality, high fidelity voice restoration, and the intelligent noise reduction completely eliminates noise. Fashionable shell-shaped design, neat and portable, fully meets the communication needs of remote conferences in office, business trip and other occasions.

Feature

- * 48K ultra-wideband voice call HD technology, full-duplex deep echo cancellation, microphone intelligent mixing, dynamic noise suppression, automatic gain control.
- * With the video conference hardware terminal and software terminal, various cloud video/network conferences and UC unified communications can be realized.
- * Multiple built-in high-sensitivity microphones form a 360-degree omnidirectional pickup with a pickup radius of 3 meters.
- * Support USB and analog audio (LINE IN/OUT) communication.
- * Support wireless 5.8G wireless audio transmission, no need for any cable to connect video terminals, conference tablets and other communication equipment.
- * Collaborative office function: support video conferences and conference calls at the same time to achieve multi-party calls.
- * The speaker volume reaches 86dB, and supports 16-level digital adjustment.
- * Off-hook, on-hook, microphone mute, volume up/down, speaker mute and other button functions.
- * Support headset function, convenient for private calls.
- * Designed with 5 function button indicators, circular working status indicator, volume status indicator, wireless reception status indicator, power switch/charging status indicator.

Specification

Model	TV-S63WB
Bidirectional Noise Compression (NC)	18dB
Microphone Automatic Direction Searching (EMI)	Support
Automatic Gain Control (AGC)	Support
Echo cancellation length	≥500ms
Mic frequency response	100Hz-22KHz
Mic pickup radius	3 meters, 360° full range
Operating system	Windows 10, Windows Vista, Windows 7, Windows 8, Mac OS X, Android
Port type	USB data and charging; USB input and output; analog audio jack: 3.5mm x1; headphone jack: 3.5mm x1
Pickup distance	3 meters effective pickup
Pickup angle	360° pickup, no obvious difference in all directions, and the level difference does not exceed 3dB
Wireless transmission distance	10 meters
AEC	Built-in echo cancellation
SPEAKER	Built-in speaker, volume >85dB, adjustable; frequency response 100~22K
Sampling rate	Maximum 48KHZ
Auto gain	Support
Noise suppression	Support
DSP	Frequency 600MHz; RAM 10M; ROM 4M; FLASH 8M
Button	5 laser with LED function buttons, 1 power switch
Power consumption	Less than 1.5W
Heat dissipation	The shell-shaped structure meets the requirements of heat dissipation performance
Working temperature	0°C ~ 40°C
Working humidity	20% ~ 80%, no condensation
Dimension	141mm*42mm (L×W×H)
Net weight	0.33kg
Gross weight	0.72kg

Microphone TV-S63WL



Description

The professional wireless HD omnidirectional microphone supports both USB and analog signal interfaces, allowing for convenient and pleasant remote communication anytime and anywhere. It adopts superb design crafts; all buttons and LED screens use laser engraving technology, making it look gorgeous and exquisite. In addition, the operation is very user-friendly. It is specially suitable for small and medium meeting rooms.

Feature

- * Full duplex deep echo cancellation, broadband voice call HD technology, intelligent microphone mixing, dynamic noise suppression, automatic gain technology.
- * Built-in 4 unidirectional microphones form a 360-degree omnidirectional pickup. The best pickup distance is 4 meters, and it can reach 6 meters at most. When using an extension microphone, the pickup distance can be as far as 8 meters.
- * Support wireless transmission function, no need for any cable to connect video terminals, PC and other communication devices.
- * Support USB, support video conference system, SaaS cloud video software platform, and network conference platform.
- * With AUX port; connect external communication terminals through 3.5mm audio cables; support video conference system, multimedia communication system, and network conference platform.
- * Support connecting to mobile phone terminals via 3.5mm audio cables, and support hands-free conference calls through mobile phones.
- * Support 5.8G wireless audio transmission, no need for any cable to connect video terminals, conference intelligent touch screens and other communication devices.
- * Multi-party call collaborative office function: the multi-party conference function integrates USB network communication and analog interface communication, which can extend video or network conference to the mobile phone network.
- * The speaker system uses a multi-core digital unit and the volume reaches 90dB; it supports 16-level digital volume adjustment.
- * Off-hook, on-hook, microphone mute, volume up/down, speaker mute and other button functions.
- * Built-in 2400mA battery supports continuous working for more than 4 hours. And the standby time is 30 days.

Specification

Model	TV-S63WL
Deep echo cancellation (AEC)	> 65dB
Echo length	≥500ms
Bidirectional noise compression (NC)	<18dB
Smart mic automatic direction finding technology (EMI)	Support
Automatic gain control (AGC)	Support
Speaker volume	Max 90dB
Mic/speaker frequency response	100Hz-22KHz
Mic pickup radius	4 meters, 360° full range
Wireless transmission distance	10 m
Operating system	Windows, Andriod, iOS, Linux
Port	USB3.0 Type B port ×1 RJ9 extension mic port ×2 Analog audio 3.5mm port ×1
Reverberation time	<500ms
Noise grade	<-48 dBA
Extension mic (optional)	Support connecting 2 extension mics, so that the pickup radius can reach 8 meters
USB cable	3 meters
Compatibility	Support Windows, Andriod, iOS, Linux system driver-free automatic identification of cameras, mics and speakers Compatible with video conference software on major platforms such as Zoom, Lynch, Vidojo, etc.
Power supply	5V 1A
Working temperature	0°C ~ 50°C (working state)
Working humidity	20% ~ 85%, no condensation
Dimension	180×180×42mm (L×W×H)
Net weight	0.63kg
Gross weight	1.14kg