



# HD Video Conference Terminal NT90LT

HD video conference with MCU terminal embedded software V2.3  
(Specification: LT02M16)



## Description

The new split 4K ultra HD video conference terminal supports H.265 technology, ultra-low bandwidth to fulfill 4K ultra HD video effects, and integrates rich audiovisual interfaces, suitable for various medium and large conference venues.

## Feature

- \* Adopt split structure, built-in hardware video processing unit, using embedded Linux operating system, without Windows/Android operating system.
- \* Support ITU-T H.323 and SIP standard protocol, with good compatibility; support H.239 and BFCP dual-stream protocol, the mainstream can reach 4K30fps.
- \* Support 64Kbps-8Mbps call bandwidth; support QCIF, CIF, 4CIF, 480P, D1, 720P, 1080P, 4K video resolution.
- \* Support 1280\*720P 60fps/50fps/30fps/25fps, 1920\*1080P 60fps/50fps/30fps/25fps, and 3840\*2160 60fps/50fps/30fps/25fps HD video signal input.
- \* Support 1024\*768 60fps, 1280\*720 60fps, 1920\*1080 60fps/30fps, and 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 annotation function of auxiliary stream, which can make real-time annotations on the auxiliary stream screen when sending and receiving auxiliary stream; support setting three different thickness pens, five pen colors, and annotation graphics such as circle, square, arrow, and lines; when sending auxiliary stream, support setting whether to open the annotation permission to the participants in the conference.
- \* Support terminal control through 2.4G remote controller, web, touch, mouse and keyboard, etc. Support remote controller and smart mouse control mode.
- \* Support to arbitrarily open and close remote video, and supports drag and drop of flying mouse to change the window position of the video in the screen layout. Support mouse control mode to drag and change the video window position in the screen layout.
- \* Adopt B/S management structure, which can remotely manage by logging in to the web via browser. Support switching between Chinese and English.
- \* Support chairman control mode. With the chairman permission, you can control the parameters such as the encoding rate and resolution of the dual-stream in remote venue. The PTZ camera can be moved up/down/left/right, focused and zoomed.
- \* Main screen supports output of 4K resolution signals, and single screen supports up to 25 video images.
- \* Support to automatically open the remote auxiliary stream screen, and can watch up to 25 different auxiliary stream screens of video terminals at the same time.
- \* Support single-screen dual-display, dual-screen dual-display and three-screen three-display functions, multi-screen layout, picture-in-picture and other common layout types. Single screen supports simultaneous display of 25 channels.
- \* Support setting full-screen display or composite display of auxiliary stream in the meeting.
- \* Support switching the signal source of mainstream video and auxiliary stream video in the meeting.
- \* Support video polling function, you can choose the polling window, polling time interval, and the people participating in the poll; support voice activation function, you can set voice activation window, and the venue with the loudest speech will automatically switch to this window.
- \* Support wireless auxiliary streaming function, the computer only needs to install a software and connect to the terminal through network to realize the wireless sharing auxiliary stream function, without external hardware equipment.
- \* Support to control the dual-stream bandwidth of all remote venues and support PTZ control for remote venues.



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- \* Support controlling the speaking permission of other terminals in the same meeting.
- \* Support invitation to join the conference, and can display the real-time status of the online address book, and the online and offline status of each venue.
- \* Support speaking applications, and you can apply for speaking permission from the chairman's venue.
- \* Support to join the meeting by entering corresponding meeting number without register, and support to join in meeting with interactive mode or live mode.
- \* Support one-click to hold immediate meeting on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting. You can invite the conference site to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in, etc.
- \* Support to schedule meeting on the terminal, select members, set the meeting password, chairman password, live broadcast password, meeting time, etc. After submission, MCU will automatically hold a meeting according to the meeting time. The meeting supports electronic whiteboard, file sharing, electronic voting, meeting sign-in, and other functions.
- \* Support terminal application to chairman for switching other participating terminals from live mode to meeting mode or from meeting mode to live mode in the meeting. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, meeting sign-in, etc.
- \* Support terminal automatic application to chairman to switch from live mode to meeting mode. After the chairman agrees, it can switch to meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in, etc..
- \* The screen layout supports automatic split screen function, which automatically selects the appropriate layout according to the number of terminals joining the conference and automatically opens the screen; support automatic filling function, select fixed screen layout, and the terminal automatically opens on an idle window after joining the meeting.
- \* Equipped with USB interface to access to USB storage devices; support meeting recording function to directly record video and audio during the meeting; support program upgrade and data packet capture through USB storage devices.
- \* Built-in conferences sign-in, electronic whiteboard, electronic voting, file sharing and other digital conference functions to meet the demands of remote training, teaching and other scenarios.
- \* Support to provide complete SDK development manual. With SDK, you can adjust the camera, send scroll messages, set banners, switch screen layout, and control speaking permission of each venue. And the third-party system can be seamlessly integrated.
- \* With rich audiovisual interfaces: 7 video input interfaces (4\*HDMI, 1\*SDI, 1\*DVI, 1\*VGA), 5 video output interfaces (3\*HDMI, 1\*DVI, 1\*VGA), optional to add 1 HDBaseT video input and 1 HDBaseT video output; 6 audio input interfaces (1\*XLR, 1\*RCA, 4\*HDMI), 4 audio output interfaces (1\*RCA, 3\*HDMI).
- \* Support local 2 channel 4K HDMI signal synthesis into 1 channel 4K signal as the mainstream sending remote terminal, support 10 kinds of synthesis layout.
- \* Support the self-repair function in case of IP network packet loss; when the packet loss rate reaches 30%, the sound is clear and continuous, and the video is smooth without jam and mosaic; when the packet loss rate reaches 80%, the sound is clear and smooth, which can be accurately understood.
- \* With ultra strong network adaptability, adjust the resolution according to the network automatically to ensure the meeting fluency.
- \* Support banner function. You can add banners to meeting screens, and set banner font size, font color, background color, and whether to enable banner.
- \* Support for scrolling messages. You can send scrolling messages, and set scrolling message font size, font color, background color, number of scrolls and whether to enable scrolling.
- \* Support automatic noise suppression, automatic gain control and automatic echo cancellation, lip sync and other audio processing functions.
- \* Support venue mute, venue silence and venue volume adjustment.
- \* Support voice priority, and QOS policy mode.
- \* Support IPV4 and IPV6 protocols. Support NAT traversal to cross routers and firewalls for system security.
- \* Excellent management and maintainability for local audiovisual loop diagnostics; one-button local audiovisual testing; support for network ping test, call log and history query on the operation interface.
- \* Support to view media information of audio, mainstream video, and auxiliary stream video, and view the protocol, format, bit rate, number and size of sent and received packets, packet loss rate, packet loss number, jitter, delay, send and receive address, whether Encryption and other information.
- \* Support web interactive electronic whiteboard function, you can perform electronic whiteboard operations on the terminal control web, set three different thickness pens, set five pen colors, set annotation graphics such as circle, square, arrow, and line, and set pure color background or picture background; when the whiteboard is operated on the web, the terminal output screen will synchronously display the contents of the whiteboard. The electronic whiteboard supports paging up to 5 pages.
- \* Support delay level setting of watching live broadcast, which can be set to three levels: smooth, moderate, and real-time.
- \* Built-in MCU function module, support 16-points conference, support smooth expansion to 8 built-in MCU function; support built-in MCU conference to hold mainstream auxiliary conference, support PC version or mobile terminal to join the conference.



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## Specification

<b>Model</b>	NT90LT
<b>Build in MCU</b>	16-points
<b>Framework protocol</b>	Comply with ITU H.323, and SIP protocol
<b>Video input</b>	7-channel high-definition video input interface: HDMI*4, SDI*1, DVI*1, VGA*1, optional HDBaseT*1
<b>Video output</b>	5-channel HD video output interface: HDMI*3, DVI*1, VGA*1, optional HDBaseT*1
<b>Audio input</b>	6 audio input interfaces: XLR*1, RCA*1, HDMI*4
<b>Audio output</b>	4-channel audio output interface: HDMI*3, RCA*1
<b>Network port</b>	2 Gigabit Ethernet ports: RJ45*2
<b>USB interface</b>	3 USB ports for expansion equipment connect or online upgrade
<b>Display method</b>	Support 4: 3 and 16: 9
<b>Ambient temperature</b>	0°C ~35°C (operating state); -40°C~55°C (non-operating state)
<b>Relative humidity</b>	10%~80% (operating state); 0%~95% (non-operating state) (no condensation)
<b>Size</b>	440mm×225.5mm×45mm
<b>Power supply</b>	DC12V/5A
<b>Weight</b>	3.2Kg