



Description

A recording and broadcasting system integrating human-computer interaction interface. It adopts integrated hardware design, embedded Linux operating system, and highly integrated with built-in ultra-high-definition video collection, recording, live broadcast, director switching, image segmentation and splicing, local echo output, and interactive module, realizing multiple functions such as video live broadcast, intelligent guidance, ultra-high-definition recording, image recognition tracking. It is the latest generation of video and recording integrated controller independently developed for the needs of live broadcast teaching in the education industry.

Feature

- * Adopt integrated hardware design, embedded Linux operating system, highly integrated system modules such as image recognition and tracking, automatic directing, live broadcast, on-demand, collection, recording, video statistics, and remote teaching.
- * Based on the B/S architecture, you can log in to the web terminal to realize functions such as live broadcast management, signal management, group management, user management, file management, recording reservation, central control management, and system management.
- * Support AAC audio encoding, accurate synchronous recording of audio and video.
- * Adopt H.264 encoding method, the bit rate is adjustable, support video encoding from 256kbps to 8Mbps, and supports resolutions such as 1920x1080.
- * Adopt a self-developed tracking algorithm to detect vertical movement tracking of face contours and ignore other activities of students. The accuracy rate reaches more than 90%, intelligently presenting the focus of the class
- * With 1-channel adjustable camera, it can be customized as network signal input, and can achieve $\pm 15^\circ$ direction adjustment, up to 1920x1080@30fps resolution image capture.
- * The controller comes with 64G memory storage, supports uploading and scheduled uploading to designated FTP file servers, and supports automatic deletion of old files to meet loop recording.
- * With 1 HDMI signal input interfaces, connected to a computer or a camera.
- * With 5 channels of network signal input, standard RTSP stream access is used to collect network camera signals.
- * The controller supports up to 6 simultaneous inputs of video signals, and the signal type supports HDMI/IP.
- * With 2 channels of HDMI video output interface, used to connect external display devices, 1 channel of teacher directing screen output. 1 channel is used for composite picture output.
- * With 2-channel audio input interface, used to collect external audio source signals.
- * With 2-channel audio output interface, used for monitoring or connecting external sound reinforcement equipment.
- * With 2 channel USB interface, used to connect mouse, keyboard, etc.
- * With 1 channel Micro USB interface, supports OTA upgrade/debugging, etc.
- * With 1 channel 100M network interface, supports IPv4 address and IPv6 address.
- * The directing station has a built-in automatic directing module, which can conduct fully automatic directing and also provides manual broadcasting function.
- * Support single-stream single-picture/single-stream multi-picture/multi-stream multi-picture recording methods, and supports multiple video formats such as MP4, AVI, MOV, FLV and MKV.
- * Support 7 screen layouts such as three-screen, four-screen and dialogue screen to meet individual needs.



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- * Support custom segmented recording, with optional duration of 30-120 minutes, and can be seamlessly connected with non-linear editing tools from other manufacturers.
- * When PGM screen switching output is displayed, it supports setting output switching special effects, including 12 kinds of screen switching special effects such as gradient, shrink, fly-in, and expansion.
- * Support the function of customizing the title title, uploading a custom title title and customizing its display time.
- * Support the slogan setting function, customizes the slogan theme, font color, and font size for the recording and broadcasting screen, and provides real-time time display switch.
- * Support watermark function to ensure video copyright ownership, prevent theft and protect document authenticity.
- * Support the scheduled recording function. After the scheduled recording schedule is edited, it will automatically record at the scheduled time, and automatically generate a file name with information such as venue, speaker, and theme.
- * Built-in PTZ control function, support controlling the zooming, zooming out, up, down, left and right movement of PTZ cameras and electronic PTZ cameras on the directing interface.
- * Built-in VOD module, support play, pause, jump and other operations of video files online through the network, support video playback speed adjustment of 0.75x, 1.25x, 1.50x, and 2.0x.
- * Support live broadcast function, and support live broadcast to 50 users in the local area network at the same time; support standard RTMP streaming protocol, and can be connected to third-party live broadcast platforms for online live broadcast, convenient to expand the number of live broadcasts.
- * Support full-screen zoom function, and after zooming in, there are still common functions such as volume adjustment and multiple playback.
- * Support the automatic uploading of backup files; working with a third-party FTP file server to automatically push the courseware to the file server; file uploading and downloading can automatically adjust the bandwidth to prevent network congestion.
- * Support one-key upgrade function, when the system has new function iterations, the function can be upgraded by importing the firmware.
- * Support factory reset function, which can clear personal information and reconfigure the device.
- * Support docking with private cloud platform servers. After successful docking, the cloud platform can provide unified management and control of the equipment, making it easier to manage multiple recording and broadcasting equipment.
- * Support one-to-one audio and video interaction function and support access to MCU server. The directing interface supports up to 16 composite screen displays.

Specification

Video protocol	H.264
Code stream	256kbps ~ 8Mbps
Video output format	MP4/MOV/MKV/FLV/AVI/TS
Audio protocol	AAC
Live protocol	Support RTMP, RTSP real-time protocol streaming
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocols
Video input port	1 HDMI high-definition video interface, 1 built-in panoramic camera
Built-in camera viewing angle	91° (D) /83°(H)/54°(V)
Video output port	2-way HDMI high-definition video interface
Input resolution	1920x1080P60/P59/P30/P25fps
output resolution	1920x1080P60/P50/P30/P25fps
Video display	Single picture, picture-in-picture, 2/3/4 picture split screen
Audio input port	1 channel 3.5mm audio interface, 1 channel HDMI with audio input
Audio output port	1 channel 3.5mm audio interface, 1 channel HDMI with audio output
Network port	1 100M network interface
USB port	2-channel USB interface for connecting mouse, keyboard, etc.
Control port	1 channel Micro USB interface, supports OTA upgrade/debugging, etc.
Control buttons	1 channel camera adjustment knob
Storage	With EMMC storage, capacity 64G
Indicator light	1 ring indicator light
Recording method	Simultaneous recording of sound and video
Directing function	Support video preview/live screen monitoring/video switching/multi-screen live screen display/audio adjustment, etc.
Live recording function	Support real-time live broadcast/synchronous recording/movie mode recording/one-click push streaming and recording/local channel playback/built-in player



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Remote teaching function	Built-in interactive module
Software reset function	Support restoring factory settings
Internet function	Support local connection/automatically obtain IP address
Power supply	DC 12V/1.5A (power adapter)
Power consumption	10W
Storage temperature	-10°C ~ +60°C
Storage humidity	20% ~ 95%
Operating temperature	-10°C ~ +50°C (ambient temperature under well-ventilated conditions)
Working humidity	20% ~ 80% (relative humidity, no condensation)
Weight	1.085kg
Dimensions (L×D×H)	408mm*75mm*89mm