



Description

The new fully automatic eight-position audio and video recording equipment adopts integrated hardware design, embedded Linux operating system, highly integrated UHD video acquisition module, recording module, live broadcast module, guide switching module, image segmentation and splicing module, and local echo output module to realize multiple functions such as live video broadcast, intelligent guide, ultra-high-definition recording, image recognition tracking, and multi-party interaction, meeting the needs of conference recording, training and learning, interactive teaching, etc.

Feature

- * Integrated hardware device, embedded Linux OS, highly integrated system module such as image recognition tracking, automatic navigation, live, VOD, acquisition, and recording, easy to use and maintain, with high security.
- * Based on the B/S architecture, you can log in to the web to realize functions such as live broadcast management, signal management, group management, user management, file management, scheduled recording, central control management, and system management.
- * The system comes standard with an eight-core 64-bit processor with a main frequency of up to 2.4GHz and 8GB of running memory. The ultra-high performance system has high stability and reliability, ensuring the normal operation of the system;
- * Audio adopts AAC high-definition encoding method, and the audio and video are accurately and synchronously recorded.
- * The video adopts H.264 and H.265 encoding and decoding methods, and the pure hardware DSP method collects, encodes and transmits high-definition video signals. Support up to 8 channels of encoding and recording.
- * Using self-developed tracking algorithms to detect the vertical movement tracking of face, and ignore other activities of the students; the accuracy rate reaches more than 90% to intelligently present classroom focus.
- * Accurately track students of low age and large height differences without installation of auxiliary tracking and analysis cameras, and support self adapt of the height of students in different classes.
- * The controller has built-in shortcut keys, and support one-key recording, stopping, live broadcast and copying of recorded files.



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- * The controller has a 1.8-inch LCD display that supports real-time preview display of common device statuses such as device operating status, parameter information, hard disk capacity, etc.
- * The controller comes with 2TB storage space, and the recording content can be stored for up to 2000 class hours; support frequent use of the device for more than one year; support automatic deletion of old files and loop recording.
- * The controller supports 8 channels of 3840x2160@30fps IPC network cameras for simultaneous access and decoding, and supports a maximum of 6 channels of image synthesis output, enabling 6 channels of images to be previewed online at the same time.
- * The controller has 6 HDMI signal input interfaces, supports full HDMI interface 4K video capture, and has 2 HDMI interfaces to achieve simultaneous audio and video capture.
- * The controller has 4 channels of HDMI signal output interfaces, supporting 2 channels of 3840x2160@30fps resolution output; 2 channels of which can achieve simultaneous audio and video output.
- * Audio transmission adopts AAC high-definition encoding method, audio and video are accurately and synchronously recorded, and supports 5-channel audio collection and output.
- * The controller supports audio management functions, supports mixing of 5 audio inputs, and sets the input volume respectively.
- * The controller has three RS-232 Phoenix terminal interfaces and one RS-485 Phoenix terminal interface, which can be used for seamless signaling connection with other control systems.
- * The controller has 4 USB2.0 interfaces and 1 USB3.0 interface for connecting U disk or keyboard and mouse.
- * The controller has 1 802.3ab 1000Base-T Gigabit network interface, 1 optical fiber network port, and supports IPv4 addresses and IPv6 addresses.
- * The controller supports 9 channels of video stream recording, 1 channel of PGM screen recording and 8 channels of resource channel screen recording. The maximum resolution supports 3840x2160@30fps, and the recorded file format supports standard MP4, AVI, MOV, FLV, TS and MKV and other formats.
- * The controller has a built-in guidance function, which outputs the guidance interface to a third-party display device through the HDMI output interface, which can realize guidance control of the recording interface.
- * Equipped with a control panel for remote control, it supports input source screen monitoring or input source screen directing switching by clicking on the panel button. It can switch the recording and playback mode, start and stop recording, switch special effects, and control the camera on the controller.
- * Support single-stream single-picture/single-stream multi-picture/multi-stream multi-picture recording methods, allowing each input signal to be saved as a separate file. Support custom categories for classified recording and classified storage, and support multiple formats such as MP4, AVI, MOV, FLV and MKV.
- * Support custom segmented recording, with five optional segment lengths of 30, 60, 120, 240 and 480, support up to 8 hours of uninterrupted recording. Support seamless connection with non-wire knitting tools from other manufacturers. Support manual control of recording, providing functions such as start, pause, resume, and end recording.
- * Movie mode supports PVW and PGM dual screens, supports output of 12 switching special effects when switching output display, and supports six screens, four screens, three screens, picture-in-picture and dialogue screens, and supports custom screen combinations to meet personalization need.
- * Movie mode supports subtitle settings and built-in subtitle templates. Users can customize the subtitle display content.
- * Movie mode supports watermarks, and users can customize the display position of the logo image.
- * The movie mode switching method supports manual remote directing through software and hardware, and can also be used with the host's built-in automatic directing module for fully automatic directing switching.
- * The controller supports the voice transliteration function, which can transcribe speech into text and automatically generate subtitles.
- * Support the function of customizing the title title, uploading a custom title title and customizing its display time.
- * Support appointment recording function. After the appointment recording class schedule is edited, it will automatically record according to the scheduled time, and automatically produce the file name with information such as venue, speaker and subject. Web page signal management supports the function of recording small resources individually.
- * Support local video preview and playback function, which can preview and view the currently recorded video, provide multiple playback switching, and support 0.5x, 1.5x, 2x, and 3x video playback speed adjustment playback.
- * Support image settings such as logo and subtitles; support live broadcast screen background, image signal display background and other settings; support one-click start of live broadcast, drag and drop videos to the designated window according to the window screen.
- * Built-in VOD module, which can perform online playback, pause, jump and other operations of video files through network.
- * Support live broadcast function, support live broadcast for 200 users at the same time within the local area network; support standard RTMP streaming protocol, and can be connected to third-party live broadcast platforms for online live broadcast, making it easy to expand the number of live broadcasts.
- * The controller supports cooperating with a third-party FTP file server to automatically upload backup files. Supports the rapid establishment of a file server through FTP server tools. Courseware is automatically pushed to the file server. Bandwidth can be automatically adjusted for file upload and download to prevent network congestion.
- * The controller supports software/hardware reset function. Users can easily restore the device to factory settings through the device's physical buttons or remote commands to avoid file damage, loss of IP address, and loss of administrator password, resulting in system inoperability.
- * Support one-key upgrade function. When the system has new function iterations, the function upgrade can be realized by importing firmware.



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- * The controller supports recording power outage video repair function. Support manual selection of repair files to prevent sudden power outage during the recording process, resulting in the loss of previously recorded courseware.
- * The controller supports the group management function of B/S users, and can assign its account and password to each user. Users can only watch live broadcasts and on-demand files after being authenticated and authorized, and with the roommate group management function, corresponding users can only access corresponding courseware.
- * The controller supports local video preview and playback function, which can preview and view the currently recorded video, provide multiple playback switching multiples, and support 0.5x, 1.5x, 2x, and 3x video playback speed adjustment playback.
- * The controller supports internal and external network interaction, has 1+3 calling function, point-to-point calling, and can be expanded to 1+15 calling after being connected with the multimedia control unit (MCU).
- * The controller supports RTSP, RTMP, RTP, TS and other streaming media protocols, has a customized RTMP streaming function, and supports 3-way streaming at the same time to meet a variety of application scenarios.
- * The controller has a standard API protocol, supports third-party platform docking, and controls recording/live broadcast/file upload, etc.
- * The controller has teaching resources and supports docking with different resource platforms to achieve diversified sharing and display of teaching content. Supports seamless connection with various online education platforms, cloud resource libraries, etc., making it easy for teachers to introduce teaching materials at any time.

Specification

Video protocol	H.264、H.265
Code stream	256Kbps~20Mbps
Video output format	Support MP4/MOV/MKV/FLV/AVI/TS
Audio protocol	AAC
Live broadcast protocol	Support RTSP and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocols
Video input interface	6-channel HDMI high-definition video interface
Video output interface	4-channel HDMI high-definition video interface
Split screen capability	Single picture, picture-in-picture, 2/3/4/5/6 pictures
Input resolution	3840x2160@30fps、2560*1600@60fps、2560*1440@60fps、2048*1152@60fps、 1920*1200@60fps、1920x1080@60/50/30/25fps、1680*1050@60fps、1280*720@60fps
Output resolution	3840x2160@30fps、1920x1080@60/50/30/25fps
Audio input interface	1-channel 3.5mm audio input interface, 2-channel Phoenix terminal input interface, 2-channel HDMI audio input interface
Audio output interface	1-channel 3.5mm audio output interface, 2-channel Phoenix terminal output interface, 2-channel HDMI audio output interface
Network port	1 Gigabit network interface, 1 optical fiber network port
USB interface	4 USB 2.0 interfaces, 1 USB 3.0 interface, support mouse/U disk/director switcher/keyboard
Control port	3 RS-232 interfaces, 1 RS-485 interface
Panel button	1×switch button, 4×function button
Software reset function	Support restoring factory settings
Indicator light	3×LED indicators, system operation, hard disk failure and recording prompt lights
Storage	2TB
Power supply	DC 24V/3A
Power consumption	45W
Weight	3.5kg
Size (L×D×H)	482.6×258.2×45mm
Operating temperature	-10°C-55°C (ambient temperature under well-ventilated conditions)
Operating humidity	20%~80% relative humidity, no condensation