



HD Recording Controller

Embedded DSP codec system V3.1

TS-0663M



Description:

It adopts integrated hardware design, embedded Linux operating system, and highly integrated system modules such as image acquisition, identification and tracking, recording, automatic broadcasting, live broadcasting, and VOD. It is a new generation of recording controller that meets the needs of conference recording, online learning, and interactive teaching.

Feature:

- * Adopt integrated hardware ARM+DSP design, embedded Linux operating system, highly integrated system modules such as image recognition and tracking, automatic guidance, live broadcast, VOD, acquisition, recording, etc. Easy to use, easy to maintain, and support high security.
- * 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/H.265 video encoding and decoding technology, adjustable bit rate, support video encoding 256kbps ~ 12Mbps, and support the max resolution of 3840*2160.
- * With built-in encryption algorithm, the genuine machine needs to be activated before it can be used; support the use of authorization date.
- * With 2TB storage space, the recording content can be stored for up to 2000 hours; support frequent use of the device for more than one year; support automatic deletion of old files and loop recording.
- * With 1 HDMI input interface, connected to teaching computer.
- * With 1 HDMI output interface, connected to TV.
- * With 1 VGA output interface, connected to a monitor.
- * With 5 network signal inputs, adopt standard RTSP stream access, used to collect network camera signals.
- * With one 3.5mm audio input, used to collect external audio.
- * With one 3.5mm audio output interface, used for monitoring or connecting to sound reinforcement equipment; with 1 HDMI audio output, used for TV sound reinforcement.
- * With one RS-232 Phoenix terminal interface, used for seamless signaling connection with other control systems.
- * With 1 RJ45 to RS-485 control interface, used for connecting and controlling the touch screen.
- * With 1 control touch screen as standard, and the power supply and control functions can be realized through a network cable between the controller and the touch screen. The touch screen supports functions such as broadcasting and recording, device shutdown, and recording duration display.
- * With 2 USB 2.0 ports, used to connect U disk. The recorded video files can be automatically copied by connecting to the USB storage device.
- * With 1 802.3ab 1000Base-T Gigabit network interface, support IPv4.
- * With dual power supply function, support standard POE power supply and DC 12V power supply. When an external power failure occurs or the power module is damaged, the controller can be used normally.
- * Support manual directing through the directing software, and automatic directing through the built-in automatic directing module.
- * Support remote control of the control screen; realize input source screen monitoring or broadcast switching, recording mode switching, recording and stopping by clicking the control screen button.
- * Support the rotation and zooming of up to 3 PTZ cameras at the same time, support the setting of the preset tracking function, and support one-key screen invocation.
- * Support recording MP4, AVI, MOV, FLV and MKV and other video formats.
- * Support 7 screen layouts such as three-screen, four-screen and dialogue screen; support two custom screen layouts to meet individual needs.
- * Support custom segmented recording, with an optional duration of 30-480 minutes; support seamlessly connecting with non-linear editing tools from other manufacturers.
- * Support switching effects, including 12 screen switching effects such as fade, erase, push, expand, and fly in.
- * Support subtitle setting, built-in subtitle template, users can customize the size, color and position of letters.
- * Support online speech transcription function, realize transcribing speech into text and automatically generate subtitles.
- * Support the function of adding a custom title, support uploading a custom title and customizing its display time.
- * Support tagging of each video screen, distinguishing the screen to display different content.
- * Support the function of recording reservation. After editing the recording schedule, it can be automatically recorded according to the scheduled time, and the



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file name will be automatically generated with information such as venue, speaker and theme.

* Built-in VOD module, support the operations such as play, pause, and jump of online video files through the network.

* 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 support connecting to third-party live broadcast platforms for online live broadcast, convenient to expand the number of live broadcasts.

* 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 the video file repair function. During the recording process, the damaged video files caused by power failure can be repaired.

* Support one-key reset function to avoid file damage, loss of IP address and loss of administrator password.

* Support one-key upgrade function, when the system has new function iterations, the function can be upgraded by importing the firmware.

* Support connecting with private cloud platform servers. The cloud platform can manage and control the devices in a unified manner, convenient for the management of multiple recording devices.

* Support software central control, fill in the central control instructions in the recording management interface, you can perform central control operations through the interface, and connect to other devices for one-key control.

* Support connecting with remote video conference system to realize the recording of conference content. Up to 5 groups of conference contents can be recorded at the same time.

* Support connecting with digital conference system to realize tracking linkage function. When the speaker turns on the digital microphone, the camera can link the designated position to shoot the speaker; up to 3 PTZ cameras can be controlled at the same time.

* Support image recognition tracking function; in the individual performance mode, the stage character tracking function is realized.

Specification:

Video protocol	H.264/H.265
Code stream	256Kbps~12Mbps
Video output format	MP4/MOV/MKV/FLV/AVI
Audio protocol	AAC
Live protocol	Support TS, RTSP, RTP and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocols
Video input interface	1 HDMI video interface
Video output interface	1 HDMI video interface, 1 VGA HD video interface
Input resolution	3840x2160P30/P25fps, 1920x1080P60/P50/I60/I50/P30/P25fps, 1280x720P60/P50fps
Output resolution	3840x2160P30fps, 1920x1080P60/P50/P30/P25fps, 1280x720P60/P50/P30/P25fps, 720X576P60/P50/P30/P25fps
Audio input interface	1 3.5mm audio interface, 1 RJ45 audio interface
Audio output interface	1 3.5mm audio interface
Network port	1 Gigabit Ethernet port
USB port	2 USB 2.0 ports
Control port	1 RS-232 port, 1 RJ45 to RS-485 port
Panel button	1 × switch button
Storage	2TB
Power supply	DC 12V/5A
Power consumption	30W
Weight	1.8kg
Dimension	300×158×45mm (L×D×H)
Working temperature	-10°C~55°C (under well-ventilated conditions)
Relative humidity	20%~80%, no condensation