



HD Recording System Controller

Embedded DSP codec system V3.1
TS-0663M



Description:

It adopts integrated hardware equipment, pure embedded system, DSP architecture design; Support multi-channel coding and decoding technology, H.265/H.264 video coding and decoding technology, HDMI signal input and network video signal input for local video recording function.

Feature:

- * Integrated hardware ARM+DSP, pure embedded system architecture, ultra-high security, easy to use and maintain, ultra-quiet.
- * Whole machine interface: 1 channel 3.5mm audio input; 1 channel Lineout; 1 channel RJ45 can be connected to RS-485 power supply director panel; 1 channel RJ45 connection network port; 1 channel HDMIin; 1 channel HDMIout; 1 channel VGAout; 2 USB interfaces; 1 RS232.
- * Support 1 HDMIIN, HDMIIN interface supports 3840x2160@30fps video input. Support 1 HDMI output interface, output maximum resolution 3840x2160@30fps, support 1 VGA video 1080P60 output.
- * The system has a built-in director display function and movie mode screen optional.
- * Support 6 signal inputs, 4K30fps network camera signal.
- * With communication and extension interfaces, 1 RS-232 interface, and central control function; With 1-channel RJ45 to RS-485 control interface, which can be used for seamless connection with other control systems.
- * Support one 802.3ab1000Base-T gigabit network interface, support IPv4 and IPv6 two protocols.
- * Hard disk storage is not less than 2TB. Support 4TB with external extension equipment; it can integrate with a third-party FTP file server.
- * Support remote control through the control screen. The control screen supports comprehensive teaching scenarios such as recording control, interaction, shutdown, recording duration display, etc.; ordinary 568B standard network cables can be used between the controller and the control screen to complete the transmission of power supply and control.
- * Support one-key recording, multi-screen combination, more than 12 kinds of switching effects, 6 channel switching and other key functions, which is convenient for users to quickly directing, recording and broadcasting manually.
- * Support H.264/H.265 video coding technology, adjustable bit rate, video coding 256kbps 12Mbps, resolutions such as 1920x1080;
- * The recording file format supports standard MP4, TS, AVI, MOV, FLV and MKV and other formats. Support the recording duration of 30-120 minutes, and seamless connection with non-linear editorial tools.
- * Support AAC audio coding, audiovisual synchronous recording.
- * Support the one-key factory reset function, which can restore the device to factory settings
- * Support one key to dynamically switch the resolution of HDMI OUT data, which can adapt to the monitor display resolution and achieve the highest display quality.
- * With a USB interface, it supports automatic copying of recorded video files when connected to a USB storage device.
- * RJ45 connection port, support POE, and support one cable to achieve dual functions of network and power supply.
- * Support program output 1920x1080, 12Mbps ultra-high-definition picture quality recording mode.
- * Support inserting functions such as information, subtitles, titles, subtitles, time information, etc., support manual and automatic subtitle machines to release subtitles, support LOGO removal basemap function, support 5 basemap color removal.
- * Support RTMP push/pull, RTSP pull, RTP, TS and other protocols, support local multicast protocol, RTMP live broadcast adopts mainstream format encapsulation, and narrow bandwidth ultra-high-definition video transmission technology to reduce network resource occupation; In the case of network support, the controller supports 50 channels of HD video live.
- * Support RTMP push streaming protocol. It can be connected to other third-party live platforms, including Dingding Live, NetEase and other live methods.
- * Support remote FTP download of recorded and broadcast files, support third-party FTP server to automatically upload videos, and support flexible configuration of the time for automatic upload to FTP server to avoid network crowding.
- * Support automatic recording. Users can schedule recording without manual operation.
- * The recording and broadcasting controller supports the open tracking protocol, and it supports image tracking, supports user-defined switching command codes, custom scene switching strategies, and list-style switching strategy tables for users to modify.
- * The conference controller supports image tracking and recognition, supports stage single-person speech mode tracking for stage character tracking function.
- * Support recording file repair function in case of controller power off, teacher operation error, abnormal shutdown, etc. Users can repair files to be repaired.
- * Support the video protocol stream to integrate video conference system, and support the recording of 5-channel video conferences.
- * Support the docking of the digital conference system to realize the automatic tracking function of the conference microphone.



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Specification:

Model	TS-0663M
Language	Chinese/English
Operation interface	Graphical menu operation interface
System structure	Embedded+DSP
Video input	1-channel HDMI IN, 5-channel network signals
Video output	1-channel HDMI output, 1-channel VGA output
Video display	Single screen, picture-in-picture, 2/3/4 screen split screen, 2-channel customization
Video standard protocol	H.264, H.265
Input resolution	3840x2160P30, downward compatible
Stream	256kbps~12Mbps
Output resolution	3840x2160P30fps, downward compatible
Audio input interface	1-channel 3.5mm audio interface
Audio output interface	1-channel 3.5mm audio interface (synchronous output)
Audio coding	AAC
Video output format	MP4/MOV/MKV/FLV/AVI/TS
Recording method	Synchronous audiovisual recording
Storage	Built-in a 2TB 2.5-inch hard drive
Network port	1-channel 802.3ab 1000Base-T Gigabit network interface
USB interface	1-channel USB 3.0 interface, 1-channel USB 2.0 interface, support mouse keyboard/U disk, etc.
Control port	2 channels (1-channel RS-232 interface, 1-channel RJ45 to RS-485 interface)
Directing function	Support video preview / live screen monitoring / video switching / live multi-screen / titles and credits / special effects / subtitles / superscript logo, etc.
Software reset function	Support factory reset
software upgrade	Support network upgrade/U disk upgrade/windows software upgrade
Network function	Support local connection/automatically obtain ip address, support IPv4 and IPv6
Live protocol	Support RTSP, RTP, HLS and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocol
Storage mode	Support built-in hard disk; support USB video export and import; support FTP download video, FTP upload video
Power supply	DC 24V/5A (power adapter)
Power consumption	30W
Reset button	Press button to restore factory settings
Operating temperature	-10°C-55°C (ambient temperature under well ventilation)
Weight	1.8kg
Dimension (L×D×H) mm	300×160×44