



Recording Controller TS-0663C

Automatic recording control built-in software V3.11



Description

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, and local echo output, realizing multiple functions such as video live broadcast, intelligent guidance, ultra-high-definition recording, remote control, image recognition tracking, and multi-party interaction. It is the latest generation of multimedia information recording and dissemination equipment independently developed to meet the needs of the education industry for comprehensive live teaching, interactive learning, and practical training.

Feature

- * Adopt integrated hardware design, embedded Linux operating system, highly integrated audio and video collection, encoding, decoding, professional directing, live broadcast, on-demand, recording and other system modules, 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, and the pure hardware DSP method collects, encodes and transmits high-definition video signals. It supports up to 7 channels of encoding and recording.
- * 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.
- * Without installing auxiliary tracking analysis cameras, it can accurately track students with large height differences and adapt to the heights of students in different classes.
- * With built-in encryption algorithm, the genuine machine needs to be activated before it can be used; support the use of authorization date.
- * Built-in 1.8-inch LCD screen displays real-time preview of common device status such as device operating status, parameter information, hard disk capacity, audio status, etc.
- * The built-in shortcut keys support one-key record, stop, live and one-key copy of recorded files.
- * 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 signal input interfaces, connected to a computer or a camera.
- * With 2 HDMI output interfaces, 1 supports 3840x2160@30fps resolution output, and can be used to connect to external display systems.
- * With 2 3G-SDI signal input interfaces, the SDI interface has the POC function, supports the self-adaptive identification of POC devices, and realizes the video transmission, PTZ control and power supply functions in one line.
- * With 3 3.5mm audio input, used to collect external audio.
- * With 3 3.5mm audio output interface, used for monitoring or connecting to sound reinforcement equipment;
- * With one RS-232 Phoenix terminal interface and one RS-485 Phoenix terminal interface, used for seamless signaling connection with other control systems.
- * With 3 USB interfaces and 2 Type-C interfaces, which can be used to connect U disk or keyboard and mouse, video capture, file copy, upgrade and other functions.
- * With 4 channels of 802.3ab 1000Base-T Gigabit network interfaces, 3 of which support POE function, realizing power supply and network supply with one network cable; supports IPv4 addresses and IPv6 addresses.
- * Support up to 7 channels of video stream recording, 1 channel of PGM screen recording and 6 channels of resource channel screen recording. The recorded file format supports standard MP4, AVI, MOV, FLV, TS and MKV and other formats, with a maximum bit rate of 20M and a maximum resolution of 3840x2160@30fps.



- * Support simultaneous decoding of 6-channel 3840x2160@30fps network cameras, support up to 6-channel image synthesis output, realizing simultaneous online preview of 6 images.
- * With 2.4G remote control, it can realize remote control of the recording controller.
- * Support local video preview and playback function, which can preview and view the currently recorded video, providing multiple playback switching, and support 0.5x, 1x, 1.5x, and 2x video playback speed adjustment playback.
- * Support software/hardware reset function. Users can restore the device to factory settings through physical buttons of the device or remote commands to avoid file damage, loss of IP address, and loss of administrator password, resulting in the system being unusable.
- * Support a variety of guidance methods for flexible control, support manual guidance through the web page, and can also be used with the built-in automatic guidance module for fully automatic guidance.
- * Support remote control of the control screen. Click the control screen button to realize input source screen monitoring or director switching, recording and broadcasting mode switching, and starting and stopping recording.
- * 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 up to 8 hours of uninterrupted recording, and 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 the function of customizing the title title, uploading a custom title title and customizing its display time.
- * Built-in video interaction function can realize the interaction of 4 recording controllers. In discussion mode, the main lecture room can have audio and video interaction with any lecture room; in mute mode, the lecture room can watch the live broadcast of the lecture.
- * Support address book function. In discussion mode, users can enter the device name or IP address in the search box at the top to find the corresponding contact that has been added, or they can create a new contact on the right side of the search box to add a contact. The added contacts can be dialed, edited, deleted and other operations through the buttons on the right.
- * Support class convening function. In interactive mode, the main lecture room can directly initiate interactive functions on classroom terminals that have participated in classroom interactions by viewing historical records. No additional configuration is required, which is convenient and fast.
- * Support permission control function. In interactive mode, the main lecture room can be set to turn on and off the terminal screen and sound in the lecture room, and the screen layout of the interactive screen can be set.
- * Support dual-screen dual display function. In recording and broadcasting mode, 1 HDMI interface outputs the guide preview interface, and 1 HDMI interface outputs computer courseware content. In interactive mode, 1-channel HDMI interface outputs the interactive images of the lecturer and the lecturer. When the lecturer turns on the auxiliary stream sharing, the HDMI interfaces of the lecturer and the lecturer output the computer courseware content of the lecturer; When the lecturer does not enable auxiliary stream sharing, the lecturer's HDMI interface outputs the lecturer's computer courseware content, and the lecturer's HDMI interface outputs the lecturer's computer courseware content.
- * Combined with the special delivery classroom interaction platform, interaction between 50 recording and broadcasting hosts can be achieved. Support a variety of screen layouts, can display up to 16 screens at the same time, and can automatically perform screen polling.
- * Support docking with educational resource public service platforms to realize resource on-demand and sharing application functions; Support the selection of viewing content by platform, school period, subject, version and teaching materials, automatic caching and high-definition video playback; supports on-demand, drag and drop, playback, jump and other video content playback operations.
- * Support the function of recording reservation. After editing the recording schedule, it can be automatically recorded according to the scheduled time, and the 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, support repair of recording files in multiple formats such as MP4, AVI, MOV, FLV, TS and MKV.
- * 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 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 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.



Recording Controller TS-0663C

Automatic recording control built-in software V3.11

Specification

Video protocol	H.264, H.265
Code stream	256Kbps~20Mbps
Video output format	SupportMP4/MOV/MKV/FLV/AVI/TS
Audio protocol	AAC
Live protocol	Support RTSP, and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocols
Video input interface	1 HDMI video interface, 2 3G-SDI video interfaces (support POC power supply)
Video output interface	HDMI OUT1: Adjustable resolution, up to 4K30 with audio output, fixed PGM screen HDMI OUT2: 1080P60 (fixed) with or without audio output, fixed director interface output
Interactive mode	Bluetooth remote control/mouse/USB touch
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	3-way 3.5mm audio input interface, 1-way HDMI with audio input
Audio output interface	3-way 3.5mm audio output interface, 1-way HDMI with audio output
Network port	4-way 802.3ab 1000Base-T Gigabit network interfaces, 3 of which support POE power supply
USB port	2 USB2.0 interfaces, 1 USB3.0 interface, supports mouse/U disk/director switcher
Control port	1 RS-232 interface, 1 RS-485 interface
Storage	2TB
Display	1.8-inch LCD display supports real-time preview display of common device statuses such as device operating status/parameter information/hard disk capacity/audio status etc.
Button	1×switch button, 4×function button
Software reset function	Support restoring factory settings
Software upgrade	Support USB upgrade, web-side network upgrade
Indicator light	3*LED, system operation, hard disk failure and recording prompt lights
Power supply	DC 24V/5A
Power consumption	120W
Working temperature	-10°C~55°C (under well-ventilated conditions)
Relative humidity	20%~80%, no condensation
Weight	3.15 kg
Dimension (L×D×H)	484×258×44mm