



Recording Controller TS-0650C

Automatic recording control embedded software V3.11



Description

The new fully automatic eight-position audio and video recording equipment adopts integrated hardware design, embedded Linux operating system, highly integrated image acquisition, recognition and tracking, recording, automatic broadcast, live broadcast, on-demand and other system modules, 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.
- * Audio adopts AAC high-definition encoding method, and the audio and video are accurately and synchronously recorded.
- * Video adopts H.264 encoding method with adjustable bit rate; support video encoding from 256kbps to 12Mbps, and support resolutions such as 1920x1080(HDMI can support 3840x2160 resolution).
- * 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 recording and broadcasting controller has an encryption algorithm to ensure that the copyrighted machine needs to be activated to have the right to use, and to support the authorized using date.
- * The controller has built-in shortcut keys, and support one-key recording, stopping, live broadcast and copying of recorded files.
- * With 2.2-inch LCD screen, to display system hard disk space, version number and recording status, IP address and other device information.
- * 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.
- * Equipped with 3-channel HDMI signal input interfaces, which can be used to connect to computer or camera.
- * Equipped with 4-channel SDI signal input interfaces, and the SDI interface has POC function, which supports self-adaptive recognition of POC equipment, and realizes one line to complete video transmission, pan-tilt control and power supply functions.
- * Equipped with 8-channel network signal inputs, adopt standard RTSP stream access to collect network camera signals.
- * Equipped with up to 8-channel simultaneous inputs of video signals, and the signal type supports HDMI/3G-SDI/IP.
- * Equipped with 3-channel HDMI video output interfaces for connecting external display devices.
- * Equipped with 3-channel audio input interface for collecting external audio source signals.
- * Equipped with 3-channel audio output interface for monitoring or connecting external sound reinforcement equipment.



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- * Equipped with 5 RS-232 phoenix terminal interfaces and 1 RS-485 phoenix terminal interface, which can be used for seamless signaling docking with other control systems.
- * Equipped with 5 USB ports for connecting U disk or keyboard and mouse.
- * Equipped with 2-channel 802.3ab 1000Base-T gigabit network interfaces, support IPv4 address and IPv6 address.
- * Support manual navigation through navigation software, and can also cooperate with the built-in automatic navigation module for fully automatic navigation.
- * Support remote control of the control panel. Click the panel button to realize the input source screen monitoring or navigation switching, recording mode switching, start and stop recording, special effects switching and camera control functions.
- * Support simultaneous rotation and zooming of up to 8 PTZ cameras, and support image tracking function with one key.
- * Support single-stream single-screen / single-stream multi-screen / multi-stream multi-screen recording, which can realize that each input signal can be saved as a separate file, and can record up to 5-channel video images at the same time; support custom categories for classified recording and classified storage, support multiple formats such as MP4, AVI, MOV, FLV and MKV.
- * Support 7 screen layouts including three screens, four screens and dialogue screens, and support 2 custom screen layouts to meet individual needs.
- * Support custom segmented recording, with a duration of 30-480 minutes optional, and can seamlessly connect with other manufacturers' non-line editing tools.
- * Support PVW and PGM dual screens, support output switching special effects when switching output display, including 12 kinds of screen switching special effects such as gradual change, erase, push, expand, and fly-in.
- * Support subtitle settings, built-in subtitle templates, users can customize the size, color, and position of the letters.
- * Support online voice transcribing function to realize speech-to-text and automatically generate subtitles.
- * Support custom add film title function, support to upload customized title and display time.
- * Support tagging each video screen to distinguish the screen and display different content.
- * Support two-dimensional keying function. Cut out the characters from green screen or blue screen background and merge them with two-dimensional virtual background to synthesize a picture.
- * 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.
- * Built-in VOD module, which can perform online playback, pause, jump and other operations of video files through network.
- * Support live broadcast function, support simultaneous live broadcast of 50 users in the LAN; support standard RTMP streaming protocol, which can be connected to third-party live broadcast platform for online live broadcast, which is convenient for expanding live broadcast number.
- * It can cooperate with third-party FTP file server to automatically upload backup files. The courseware is automatically sent to the file server. File uploads and downloads automatically adjust bandwidth to prevent network congestion.
- * Support video file repair function. During the recording, video files damaged by power failure can be repaired.
- * Support one-button reset function to avoid file corruption, loss of IP address, loss of administrator password and system failure.
- * Support one-key upgrade function. When the system has new function iterations, the function upgrade can be realized by importing firmware.
- * Support software central control, fill in the central control command in the recording management interface to use the interface for central control operation, docking other devices to support one-key central control instructions.
- * Support docking with private cloud platform server. After successful docking, cloud platform can uniformly control equipment, facilitating the management of multiple recording and broadcasting equipment.
- * Support user group management function, which can assign account permissions to each user. Users can only watch live and on-demand files after authorization, and the corresponding users can only access the corresponding files.
- * Support confidential audio and video encrypted recording, and provides two encryption methods: user password encryption and U-shield encryption. Support encryption of unencrypted recorded videos. Provides RecPlayer dedicated decryption player to decrypt and play encrypted videos.
- * Support the SM4 national secret algorithm function and realizes the SM4 encrypted recording algorithm function.

Specification

Video protocol	H.264
Code stream	256Kbps~12Mbps
Video output format	MP4/MOV/MKV/FLV/AVI/TS
Audio protocol	AAC
Live broadcast protocol	Support TS, RTSP, RTP and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocol
Video input interface	4-channel SDI high-definition video interfaceS, 3-channel HDMI high-definition video interfaces
Video output interface	3-channel HDMI high-definition video interfaces
Input resolution	3840x2160P30fps, 1920x1080P60/P50/I60/I50/P30/P25fp
Output resolution	3840x2160P30fps, 1920x1080P60/P50/P30/P25fps, 1280x720P60/P50/P30/P25fps, 720X576P60/P50/P30/P25fps
Audio input interface	2-channel Phoenix terminal interfaces, 1-channel HDMI audio interface
Audio output interface	1-channel Phoenix terminal interface, 1-channel 3.5mm audio interface, 1-channel HDMI audio interface
Network port	2-channel Gigabit Ethernet ports
USB interface	5-channel USB 2.0 interfaces
Control port	5-channel RS-232 interfaces, 1-channel RS-485 interface



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Panel button	1×switch button, 4×function buttons
Indicator light	3×LED indicators
Storage	2TB
Power supply	DC 24V/5A
Power consumption	45W
Weight	2.25kg
Size	440×295×53.8mm (L×D×H)
Operating temperature	-10°C~55°C (Well-ventilated ambient temperature)
Operating humidity	20%~80% relative humidity, no condensation