Recording Controller
TS-0653

Description:

t is a new generation of fully automatic four-camera recording controller. Using integrated hardware design, embedded Linux operating system, as well as highly integrated image recognition tracking, automatic broadcast, live broadcast, VOD, acquisition, recording and other system modules, it can meet the needs of making quality teaching videos, online learning, interactive teaching, etc.

Feature:

*   Use integrated hardware design, embedded Linux operating system, highly integrated image recognition tracking, automatic broadcast, live broadcast, VOD, acquisition, recording and other system modules; convenient usage and maintenance, and 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 audio adopts AAC HD encoding method, and the audio and video are accurately recorded synchronously.
*   The video adopts H.264 encoding method with adjustable bit rate, supports video encoding 256kbps ~ 12Mbps, and supports 1920x1080 and other resolution.
*   The recording controller has a built-in encryption algorithm to ensure that the genuine machine needs to be activated to get the permission to use it, and it supports the use of the authorization date.
*   The controller has a built-in 2.2-inch LCD screen, which displays device information such as system hard disk space, version number, recording status, and IP address.
*   The controller comes with 2TB of 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 has 2 HDMI signal input interfaces, which can connect to a computer or camera.
*   The controller has 4 SDI signal input interfaces, which can connect to the camera.
*   The controller has 1 YCBR composite signal input port for connecting external signal sources.
*   The controller has 4 network signal inputs, using standard RTSP stream access, to collect network camera signals.
*   The controller supports simultaneous input of up to 4 video signals, and the signal type includes HDMI/3G-SDI/IP.
*   The controller has 2 HDMI video output interfaces for connecting external display devices.
*   The controller has three 3.5mm audio input interfaces for collecting external audio signals.
*   The controller has two 3.5mm audio output interfaces for monitoring or connecting to external sound devices.
*   The controller has two RS-232 control interfaces for seamless signaling connection with other control systems.
*   The controller has 2 USB ports for connecting U disk or keyboard and mouse.
*   The controller has one 802.3ab 1000Base-T gigabit network interface, supporting IPv4 address and IPv6 address.
*   The controller comes with a 2.4G remote control with laser pointer function. It can realize the remote one-key recording function, and control the teacher computer to realize PPT operations, including PPT page turning, playback, and exit.
*   Support manual broadcast through the directing software; work with the built-in automatic directing module for fully automatic broadcast.
*   It supports remote control through the control panel, and functions such as input source monitoring, directing screen switching, recording mode switching, start/stop recording, special effect switching, and camera control can be realized by clicking the panel button.
*   It can simultaneously control up to 4 PTZ cameras to turn and zoom; it supports the image tracking function with one click.
*   Support single-stream single-screen/single-stream multi-screen/multi-stream multi-screen recording, and each input signal can be saved as a separate file; it can record up to 5 video images at the same time, and supports classification recording and classification storage, including multiple formats such as MP4, AVI, MOV, FLV and MKV.
*   Support 7 screen layouts including 3-screen, 4-screen and dialogue screen layout, and supports 2 custom screen layouts to meet individual needs.
*   Support custom segmented recording, with a duration of 30-480 minutes, which can be seamlessly connected to the nonlinear editing tools of other manufacturers.
*   Support PVW and PGM dual screen, support output transition effects, including 12 transition effects such as gradient, erase, push, extend, and fly-in.
*   Support subtitle settings, built-in subtitle templates, users can customize the size, color, and position of the letters.
*   Support online speech-to-text function, and automatically generate subtitles.
*   Support customizing and adding a title, support uploading a custom title and setting the display time.
*   Support tagging each video screen, distinguish the screen to display different content.
*   Support the scheduled recording function, after the recording 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 theme.
*   Built-in VOD module supports online playback, pause, jump and other operations of video files through the network.
*   Support live broadcast function, support simultaneous live broadcast of 50 users in the local area network; support standard RTMP streaming protocol, which can be connected to a third-party live broadcast platform for online live broadcast, which is convenient to extend the number of live broadcasts.
*   Support automatic file upload and backup; courseware can be automatically pushed to the file server with the help of a third-party FTP file server; automatically adjust the bandwidth during file upload and download to prevent network congestion.
*   Support video file repair function. During the recording process, video files damaged by power failure can be repaired.
*   Support one-key reset function to avoid file damage, loss of ip address and loss of administrator password, which may cause the system to become unusable.
*   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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* Support software central control, fill in the central control instructions in the recording management interface, and you can conduct central control operations through the interface, and connect to other devices for one-key control.
* Support connecting with private cloud platform servers; the cloud platform can perform unified management and control of the devices.
* Support user group management function, assign account permissions to each user. Users can watch live and VOD files after authentication and authorization, and they can only access the corresponding files.
* valid for the super administrator.
* Recycle bin: Clear, restore, and delete the content of the recycle bin.

Specification:

Video protocol	H.264
Code stream	256Kbps~12Mbps
Video output format	MP4/MOV/MKV/FLV/AVI/TS
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 protocol
Video input interface	4 SDI HD video interfaces, 2 HDMI video interfaces, 1 composite video interface
Video output interface	2 HDMI video interfaces
Input resolution	1920x1080P60/P50/I60/I50/P30/P25fps
Output resolution	1920x1080P60/P50/P30/P25fps, 1280x720P60/P50/P30/P25fps, 720X576P60/P50/P30/P25fps
Audio input interface	Three 3.5mm audio interfaces
Audio output interface	Two 3.5mm audio interfaces (synchronous output)
Network port	1 Gigabit Ethernet port
USB interface	2 USB 2.0 interfaces
Control port	2 RS-232 interfaces
Panel button	1× power switch
Storage	2TB
Power supply	DC 24V/5A
Power consumption port	45W
Weight	3.95Kg
Size	484×310×60mm (L×D×H)
Working temperature	-10°C~55°C (under well-ventilated conditions)
Relative humidity	20%~80%, no condensation