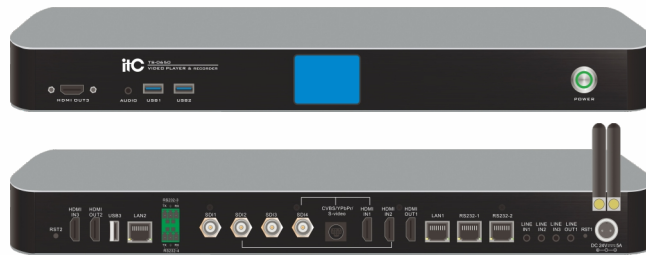# Recording Host
TS-0650

Description

* The fully automatic eight-position recording and broadcasting system adopts integrated hardware equipment, embedded Linux operating system, B/S architecture design, highly integrated embedded HD video capture module, recording module, live broadcast module, image recognition and tracking module, guide switching module, Image segmentation and splicing module, local echo output module, realize video live broadcast, intelligent guide broadcast, high-definition recording, touch screen control, image recognition and tracking, etc. It's the latest generation of multimedia information recording and dissemination equipment that we independently developed, to meet the demand for quality education video, online learning, interactive teaching, etc. in the education industry.

Feature

* Integrated hardware device, embedded Linux OS, highly integrated system module for image recognition tracking, automatic navigation, live broadcast, on-demand, acquisition, recording, video statistics.
* The video adopts H.264 High Profile encoding mode, which is a pure hardware DSP method to collect, encode and transmit high-definition video signals.
* Supports up to 8 video signal inputs, supports HDMI/3D-SDI/IP, and supports 8-channel network camera video signal input.
* It has 4 HD camera SDI signal inputs and 3 HDMI signal inputs.
* Audio adopts AAC high-definition encoding mode, equipped with 3 3.5mm stereo audio input interfaces and 2 3.5mm stereo audio output interfaces, supporting 3 channels of audio input mixing output.
* Equipped with 3 HDMI video output interfaces to support the selection of output content.
* Support multi-stream multi-picture / single stream single picture / single stream multi-picture mode, the recorded file format supports standard MP4, AVI, MOV, FLV and MKV and other formats. And the customizable slice recording time is 30-120 minutes, which can seamlessly connect non-linear editing tools.
* Support multi-channel video signal recording, which can save each input signal as a separate file, and can customize the category for classified recording and classified storage.
* Support automatic recording function. After the recording of the scheduled recording schedule is completed, it will automatically record according to the scheduled time, and automatically produce the file name with information such as the venue, the presenter and the subject.
* Movie mode supports PVW and PGM dual screens, supports output switching effects when switching output display, and supports four screens, three screens, picture-in-picture and dialogue screens, and supports custom screen combinations to meet individual needs.
* Movie mode supports subtitle settings, with two default templates, users can customize the subtitle display content.
* The mode of switching between movie modes supports software and hardware for manual remote broadcast, and can also be used for automatic guided broadcast switching with the automatic navigation module provided by the host.
* Support custom add header and footer function, support uploading custom title, and customize the length of its display.
* With VOD on-demand module, online video playback, pause, jump and other operations can be performed through the network.
* It can cooperate with third-party FTP file server to automatically upload backup files. And provide FTP server tools to quickly build a file server, the courseware is automatically sent to the file server. File uploads and downloads automatically adjust bandwidth to prevent network congestion.
* Support the user's group management function, each user can be assigned its account number and password. After the user is authenticated and authorized, the user can watch live and on-demand files, and it has group management function to ensure that the corresponding users can only access the corresponding courseware.
* With the remote control of the control panel, the input source screen monitoring or the input source screen can be switched by clicking the panel button, and the host can perform recording and recording mode switching, start recording and stopping, special effect switching and camera control.
* The recording and broadcasting system has a custom RTMP stream function, which can be streamed and docked to a third-party live broadcast platform for live broadcast.
* The host comes with 2TB of storage space, with automatic upload and timed upload to the specified FTP file server. Recording courseware can be stored for up to 2,000 class hours, supporting the frequent use of devices for more than one year.
* With 2.2-inch LCD screen, to display system hard disk space, version number and recording status, IP address and other device information
* The recording and broadcasting host 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.
* Recording host support software central control, fill in the central control command in the recording and recording management interface, you can use the interface for central control operation, docking other devices to support one-key central control instructions.
* Using the most advanced tracking algorithm, by detecting the vertical movement of the contour of the face, ignoring the other activities of the students, the accuracy rate

reaches more than 90%, and intelligently presents the "focus" of the classroom.
* There is no need to install a tracking aid analysis camera to achieve image recognition tracking. It can adapt to students of different heights, which is great for classes with younger students and big height difference.
* With LAN port and RS-232 interface, it can operate the rotation and zoom of up to 8 PTZ cameras at the same time. And support image click tracking, one button to get in place.
* The recording host can communicate with multiple classrooms at the same time in the lecture room, and the recording host can switch between the main mode and the listening mode.
* The recording and broadcasting host supports the control through the wireless remote control, and supports the recording and stopping functions of the recording and broadcasting through the remote control. The remote controller supports 2.4GHz transmission, and can be used as a teacher's teaching page turning pen through the remote controller, which is convenient for teachers in daily use.
* The recording host supports one-button reset function to avoid file corruption, loss of IP address, loss of administrator password and system failure.

Model	TS-0650
Video input interface	4 SDI HD video interfaces, 3 HDMI high-definition video interfaces,
	1 composite video interface, support video network stream input as input source
Video output interface	3 HDMI HD video interface
Video display	Single screen, picture-in-picture, 2/3/4 screen split screen,
	2 channels customize
Video standard protocol	H.264
Input resolution	Support 1920x1080P60/P50/I60/I50/P30/P25fps
Code stream	128Kbps~12Mbps
Output resolution	1920x1080P60/P50/P30/P25fps, 1280x720P60/P50/P30/P25fps,
	720x576PP60/P50/P30/P25fps
Audio input interface	3 3.5mm audio interfaces
Audio output interface	2 3.5mm audio interfaces (synchronous output)
Audio coding	AAC
Video output format	Support MP4/MOV/MKV/FLV/AVI
Recording method	Simultaneous recording of sound and video
Storage space	Built in a 2TB SATA hard drive
Network port	2 802.3ab 1000Base-T Gigabit network interfaces
USB interface	2 USB 3.0 interfaces, 1-channel USB 2.0 interface,
	support for mouse/U disk/guide switcher
Serial port	4 RS-232 interface
Broadcasting function	Support video preview / live screen monitoring / video switching /
	pre-live screen monitoring / live screen multi-screen display / dual
	movie guide mode / audio adjustment / header and footer / special effects / subtitles, corner logo, etc.
LCD function	System running status / device model / date / hard disk information / recording status / IP1/IP2
Live recording function	Support real-time live/ synchronous recording/ film mode recording/
	resource mode recording/resource mode and movie mode
	simultaneous work/ manual and fully automatic navigation/ one-button
	open stream push and video/ local channel playback/ built-in player/
	two movie modes work at the same time under dual-guide mode
Software reset function	Support for factory reset
Software upgrade	Support network upgrade/u disk upgrade/windows software upgrade
Network function	Support local connection/ automatically obtain ip address
Live broadcast protocol	Support TS, RTSP, RTP and RTMP real-time protocol streams
Network protocol	Support TCP, UDP, RTMP, RTSP, FTP, DHCP, HTTP protocol
Power supply	DC 24V/5A (power adapter)
Power consumption	45W
Reset button	Press button to restore factory settings
Operating temperature	-10°C - 55°C (ambient temperature in a well ventilated environment)
Weight	4.2kg
Size	484×310×60mm (L X D X H)