INTELLITECH IT-4HD Streaming Device

1. It is required that the recording and broadcasting host must adopt an embedded architecture design, and server and PC architectures are not accepted to ensure that the system is stable and reliable, and the height of the recording and broadcasting host should not exceed 1U.

2. In order to ensure the audio effect of video recording, reduce the environmental noise of the recording and broadcasting classroom, and ensure the normal heat dissipation of the host system, a fanless heat dissipation design is required.

3. Functions such as recording, streaming, on-demand, directing, storage, audio and video encoding are integrated in one host, and no encoding box is required.

4. Support no less than 4 HDMI input interfaces, and support 4 channels of high-definition video signal (1080P60) input at the same time.

5. Support no less than 1 HDMI output interface and 1 VGA output interface, and the output content can be customized as live image or director interface.

6. Audio interface: support no less than 2 LINE in and 2 LINE out, adopt 3pin Phoenix terminal interface; no less than 1 3.5mm headphone monitoring port.

7. Support no less than 1 set of RS232 and 3 sets of RS485 interfaces, using 3pin Phoenix terminal interface.

8. Support 1 Gigabit network interface.

9. Support 2 USB2.0 ports.

10. The hard disk storage capacity of the recording and broadcasting host is ≥1T, which supports expansion.

11. The front panel of the host is equipped with an LCD screen, which supports displaying information such as logo, disk space, recording status, IP address, firmware version, and channel status, and manages device control in real time. In order to ensure a clear display, the size of the LCD screen is not less than 2 inches

12. The recording and broadcasting system has the advantages of embedded low power consumption and environmental protection, and the power consumption of the whole machine under normal working condition does not exceed 30W.

Recording and broadcasting system software parameters

1. Provide local guide and web remote guide.

Local broadcasting: The directing operation can be performed directly on the touch screen of the recording and broadcasting host to ensure that the directing has better real-time performance and fluency, and the local directing delay is less than 150ms.

Remote broadcasting: Support browser remote broadcasting operation mode.

2. Video H.264 encoding, audio AAC encoding, audio and video simultaneous recording, the recorded video files are standard streaming media MP4 format. The video encoding is adjustable from 500Kbps to 40Mbps, and the audio channel, sampling rate, number of digits, and code rate are adjustable, and the maximum supported code rate is 128K.

3. Support movie mode and two recording modes of power mode and resource mode. Movie mode and resource mode recording can work at the same time, and the same device can record no less than 7 channels of 1080P video at the same time.

4. Support one-button start (recording, automatic broadcast guidance, live streaming and other functions), and provide three guidance modes: manual, semi-automatic and fully automatic.

5. Support setting timed recording, you can set the recording time in advance

according to the class schedule, and record automatically.

6. Support the addition and setting of titles, logos, subtitles, opening and closing titles.

7. Support shutdown and restart operations in the system, and you can set a scheduled restart.

8. Support network automatic synchronization system time, no need to manually set.

9. The system must support RTMP and TS streaming functions. The streaming supports dual PGM high-bit stream and low-bit stream simultaneous push, no less than 4 channels of RTMP simultaneous push streams, to meet the needs of users with different network bandwidths, and to achieve cooperation with third parties Streaming docking of platforms and systems.

10. PGM supports picture-in-picture, picture-outside-picture, 1/2/3/4/6 split-screen mode display and recording, provides more than 9 layout modes, and supports custom layout methods. (Provide software interface screenshots).

11. Provide more than 12 kinds of switching effects, including mainstream switching effects such as erasing, covering, fade in and fade out.

12. The recorded video file format supports standard MP4, and the recording time of segments can be customized for 30-240 minutes.

13. Support users to check the total capacity of the recorded video on the host at any time, so that users can clearly understand the usage of the host hard disk.

14. Support the selection of loop coverage and stop recording after the hard disk recording is full.

15. Support inserting mobile hard disk or U disk for video recording.

16. Support users to view the recorded video through the recording and broadcasting host at any time, and can directly play it on the recording and broadcasting host to view the recording effect, and can use a removable disk or hard disk to copy.

17. Supports FTP remote automatic uploading of videos, automatically uploads

video files to FTP server after recording stops, and supports resuming uploads from breakpoints.

18. Support the import and export of recording and broadcasting host parameter configuration, which is convenient for users to maintain uniformly and quickly upgrade and debug.

19. The main screen of the director shows the volume level in real time, and presents it in the form of an audio progress bar, which is convenient for the teacher to know the recording status in real time.