



Functional description:

- 1.The terminal adopts a highly integrated design, enabling a single unit to perform audio and video capture, audio and video encoding/decoding, audio and video processing, video recording, video-on-demand, live video streaming, video production control, and operational management functions.
- 2.The terminal is a standard 1U rack-mount device for easy installation and deployment. The recording and broadcasting host features a non-wall-mounted design, eliminating video or strong light source fluctuations that could distract students' attention during class.
- 3.To ensure optimal audio-visual quality and minimize environmental noise in recording studios while maintaining proper heat dissipation for the host system, the terminal features a metal chassis with a fanless cooling design, achieving noise levels below 26dB.
- 4.The terminal unit features function shortcut keys, enabling quick control of recording start/stop and live streaming via panel buttons.
- 5.The terminal audio employs high-quality AAC audio encoding technology with a sampling rate of 48KHz, delivering true-to-life sound reproduction.
- 6.The terminal features built-in network isolation capabilities, enabling the POE network and external network to operate independently and remain isolated from one another without mutual interference.
- 7.The terminal supports multiple types of video signal inputs, including standard network video signals and high-speed digital signals.
- 8.The terminal supports multiple power-on methods, including automatic startup upon power-up, scheduled startup, and conventional startup.
- 9.The terminal features a Reset button that supports hardware recovery functionality, enabling full system restoration via the Reset key.

Technical specifications:

Model	LB-8102M
Processor	ARM multi-core processor
Operating System	China developed independent embedded operating system, neither Windows nor Android
Operating Voltage	220V AC
Power consumption	< 35W
Video Coding Standard	H.264
Coding rate	Supports adjustable speeds from 512 kbps to 20 Mbps
Video resolution	Supports adjustable resolutions from 640×360 to 1920×1080
Sampling rate	48KHz
Screen	The terminal features a built-in 1.7-inch LCD screen displaying system hard drive space, version number, recording status, IP address, and other device information.
Video Interface	2 HDMI input ports; 4 SDI input ports; 2 HD video outputs with audio output capability
Input/Output Interface Resolution	HDMI supports resolutions up to 4K and is backward compatible with standard resolutions such as 1080 and 720; SDI supports resolutions up to 1080 and is backward compatible with standard resolutions such as 720.
Audio Interface	6 audio inputs: 2 HDMI audio inputs, 2 phantom-powered microphone inputs, 2 line stereo audio inputs; 4 audio outputs: 2 HDMI audio outputs, 2 line stereo audio outputs.
Network Interface	4 x 10/100/1000 Mbps auto-sensing RJ45 ports, with 2 ports supporting POE
Serial port	1-channel RS232 interface
USB port	3 USB ports, including 3 USB Type-A ports
Hard disk	Built-in high-speed stable 1TB hard drive with support for storage expansion
Dimensions	483.4mm*318.5mm*46mm
Weight	3.8kg