

4K UHD Video Conference Terminal : SV-EXP800 End Point Codec



SV-EXP800 is a professional-grade video conferencing terminal engineered for enterprise collaboration, remote education, telemedicine, emergency command centers, and mission-critical communications.

It supports industry-standard communication protocols including SIP and H.323, along with advanced video compression technologies H.264 and H.265, ensuring high-definition video quality with optimized bandwidth utilization.

Equipped with dual-channel HDMI video input and output, the SV-EXP800 enables seamless multi-screen interaction, content sharing, and enhanced multi-task collaboration, making it ideal for modern, high-performance conferencing environments.

Features

Integrated Conference



The terminal supports the SIP & H.323 protocols and is compatible with mainstream video conferencing platforms such as Zoom/Microsoft Team /Webex Meeting; it is also compatible with diverse conference needs with an open API to support third-party application development for easy customisation.

Dual 4K



Supports advanced H.265 (HEVC) video encoding and decoding, enabling dual-channel 4K@60 fps video output at ultra-low bandwidths up to 2 Mbps. This ensures exceptional video clarity while significantly optimising network utilisation. The architecture supports simultaneous multi-task processing, enabling seamless content sharing, presentation collaboration, and real-time video interaction during meetings, and it supports IR transmission.

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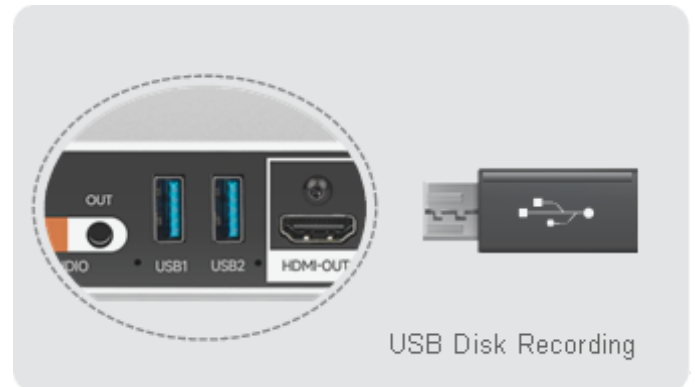
Features

Built-in MCU



Equipped with a built-in MCU (Multipoint Control Unit), the system efficiently supports multi-party conferencing without the need for an external server. It is specifically designed to meet the collaboration requirements of small and medium-sized enterprises, enabling stable, high-quality multipoint meetings while significantly improving communication efficiency, decision-making speed, and overall collaboration effectiveness. Facility to upgrade the unit from Point to MultiPoint, supporting 1 +3, 1+5, & 1 +8 conferencing sites, support FEC packet-loss protection

Remote & Local Recording and Broadcasting



Supports remote recording and live broadcasting, enabling seamless conference recording and streaming directly on a PC platform. In addition, the system provides USB storage-based local recording, ensuring secure, reliable preservation of meeting content. This dual recording capability enhances data security, confidentiality, and traceability of meeting records, making it suitable for enterprise and institutional environments. Supports two-language simultaneous audio.

Infrared Transmission



When integrated with a compatible camera model, the system enables infrared (IR) remote control signal transmission to the terminal via the camera interface. This design ensures reliable remote operation even in obstructed or non-line-of-sight environments, enhancing operational flexibility and user convenience in professional conferencing setups.

Multiple Interfaces



The camera supports USB 3.0, HDMI, RS232, PoE, RJ45, audio, mic, and more. It also supports four video inputs and two outputs, as well as five audio inputs and four outputs, meeting various conference needs. The ISDN system supports a dual network (LAN and WAN)

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Specifications

Standards & Protocols

Multimedia Framework Protocol	ITU-T H.323, IETF SIP
Video Codec Protocol	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265
Audio Codec Protocol	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, G.728 SILK
Dual Stream Protocol	ITU-T H.239, BFCP
Other Communication Protocols	H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
Network Transport Protocol	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP

Video Features

Active Image Resolution	• 4KP30/60, Minimum Bandwidth 2048Kpbs • 1080p, Minimum Bandwidth 512Kpbs • 720p, Minimum Bandwidth 384Kpbs
	• Input:
	VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080),
Data Content Resolution	3840x2160
	• Codec:
	800x600, 1024x768, 1280x1024, 1280x720,
	1920x1080, 3840x2160
	• Output:
	800x600, 1024x768, 1280x1024, 1280x720,
	1920x1080, 3840x2160
Dual Flow of Activities	Dual 4KP30/60
Other Image Properties	SupportPIP, POP Equal display mode

Audio Features

Audio Features	Automatic echo cancellation (AEC) •Automatic Gain Control (AGC) •Automatic noise suppression (ANS) •Support lip sync
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Bandwidth

IP	64kbps~10Mbps
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Interface

Audio Input Interface (5 input)	1 x 3.5mm Linear Input , 1 x XLR microphone input, 1 x RJ45 Digital microphone input, 1xUSB, 1 x HDMI Audio
Audio Output Interface(4output)	1 x 3.5mm Linear output, 2 x HDMI Audio output, 1xUSB
Video Input Interface (4 input)	2 x HDMI 1 x USB 1 x VIDEO(PoE TOUCH Port)
Video OutPut Interface(4 output)	2 x HDMI 1 x USB 1x VIDEO(PoE TOUCH Port)
USB Interface	2 x USB 3.0 (support USB flash drive, USB Microphone, etc.)
Network Interface	2x RJ45: 10/1000 Base-T, Touch/DMIC mouth 1x wireless: 802.11 b/g/n Wi-Fi (Optional)
Other	OLED shows IP and registration number, AI tracking,AI noise reduction, voice to text, wireless screen projection, 4K dual screen display.

General Features

Size	•Terminal size: 348mm x 148mm x 37mm •Package Size: 413mm x 332mm x 130mm •net weight: 1.4Kg •Gross Weight: 2.2Kg
Electrical Characteristics	•Operating Voltage: , DC 12V •Maximum power consumption: 54W
Environmental Requirements	•temperature:0°C ~ 40°C (Working status), -40°C ~ 70°C (Non-working state) •Relative humidity:10% ~ 80% (Working status), 0% ~ 95% (Non-working state) •Surrounding noise: less than 46dBA SPL •Minimum illumination: 5lux •Recommended illumination: greater than300lux
Certifications and Standards	Telecom Network Access,CE, RoHS, FCC