Video Conferencing Endpoint (H.323/SIP)

All-in-One 4K Video Conferencing Endpoint
CX210

4K UHD | **Convergence Conference** | **Speaker Tracking** | **Built-in MCU** | **12× Optical Zoom**

4K all-in-one endpoint, equipped with~12X lens and high quality 4K CMOS sensor,support dual 4KP30 streaming, best choice for enterprise/government collaboration, online health-care, online teaching/learning and conferencing.

Product Specification

▼ Standard & Protocol

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, SILK
Double 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 Transmission Protocols	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	Minimum 1Mbps for 4K at 30fps; dual 4K at 30fps on main and auxiliary streams with minimum 2Mbps. Minimum 512Kbps for 1080p at 60fps; 4K at 60fps supported on minimum 2Mbps
Data Content Resolution	• Input: VGA (640×480), SVGA (800×600), XGA(1024×768), WXGA(1280×768), WXGA (1280×800), 1280×960, SXGA(1280×1024), 1360×768, 1366×768, 1440×900, 1600×900, 720p(1280×720), 1080p(1920×1080), 3840×2160 • Codec: 800×600, 1024×768, 1280×1024, 1280×720, 1920×1080, 3840×2160 • Output: 800×600, 1024×768, 1280×1024, 1280×720, 1920×1080, 3840×2160
Active Dual Stream	Dual 4K resolution at 30 frames per second
Other Image Feature	Support PIP, POP and other display modes

▼ Audio Features

Audio Feature	• Automatic echo cancellation (AEC) • Automatic gain control (AGC) • Automatic noise suppression (ANS) • Lip-sync supported

▼ Bandwidth

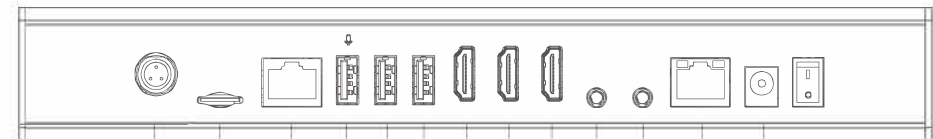|	
IP	64kbps ~ 8Mbps

▼ I/O

Audio Input Interface	1 × Built-in Microphone Input 1 × Microphone Input (Mini XLR Interface) with Phantom Power Support 1 × 3.5mm Line Input 1 × USB 3.0 1 × HDMI with Embedded Audio Input 1 × DMIC
Audio Output Interface	1 × 3.5mm output 2 × HDMI Audio output 1 × USB
Video Input Interface	1 × 12x Optical Zoom 4K PTZ Camera 2 × HDMI 1 × USB 1 × VIDEO(POE TOUCH)
Video Output Interface	2 × HDMI
USB Interface	2 × USB3.0 (USB flash disk supported,USB Microphone etc)
Network Interface	2 × RJ45: 10/100/1000 Base-T,Touch/DMIC Interface 1 × Wireless: 802.11 b/g/n Wi-Fi (Optional)
Others	OLED display IP and registration number,AI tracking AI noise reduction,voice to text,wireless casting,4K dual-screen heterodyne display

▼ Generic Spec

Dimension	• Device dimensions (excluding protruding parts): 258mm x 146mm x 170mm • Net weight: 2.0 Kg
Power Supply	• Operating voltage: DC 12V • Max. power consumption: 54W
Environmental Requirements	• Temperature: 0 ° C ~ 40 ° C (working condition), ~40° C ~ 70° C (Non working state) • Humidity: 10% ~ 80% (operating), 0% ~ 95% (non-operating) • Ambient noise: < 46dBA SPL • Min. illuminance: 5lux • Recommended illuminance: > 300lux
Certification and Standards	China Telecom Network Access, CQC, CE, RoHS, FCC

Features

▼ 4K Ultra High Definition
The video conferencing terminal employs an 8.42 million pixel CMOS sensor, supports 12x optical zoom, and delivers 4K@30fps ultra-high resolution images with clear and natural quality over a 1Mbps bandwidth.

▼ Speaker Tracking
Incorporating an AI video algorithm, it precisely identifies the speaker's physique, appearance, and attire. As the speaker moves within the conference room, the camera automatically and stably follows to ensure the speaker remains centered in the frame. Even with multiple people moving or if the speaker steps out of the frame, it quickly captures and continues tracking the speaker, rivaling professional photographers.

▼ Built-in MCU
Equipped with an integrated MCU (Multipoint Control Unit), supporting 1+8 networking, fulfilling the needs for simple networking and swift conferencing for small and medium-sized businesses, enhancing communication and collaboration efficiency in small-scale meetings.

▼ Converged Conferencing
Supports standard SIP & H.323 multimedia communication protocols, catering to the needs of corporate private network meetings; compatible with mainstream cloud video conferencing platforms like VooV Meeting, allowing businesses to quickly launch online meetings without the need for additional public network deployments; also compatible with ViewSonic's private cloud meeting platform, flexibly meeting the diverse meeting needs of enterprises.

Interface Diagram

1	mini xlr	5	USB	9	HDMI IN	13	DC 12V
2	TF	6	USB	10	LINE IN		
3	RJ45	7	HDMI OUT 2.1	11	LINE OUT		
4	USB	8	HDMI OUT 2.1	12	NET		