4K Intelligent Video Conferencing Endpoint

CX200

4K UHD | Convergence Conference | Video 4 in 2 out | Audio 5 in 4 out | Infrared Passthrough

The CX200 is a new 4K ultra-high-definition video conferencing endpoint, crafted specifically for various meeting scenarios such as government and corporate meetings, emergency command, telemedicine, and remote education. Powered by the latest generation processor, it offers smooth and stable operation for video conferencing systems. The CX200 features four video input and two output interfaces, along with five audio input and four output interfaces, meeting the connectivity needs of diverse meeting settings and ensuring the secure and stable operation of remote conferences.

Features

Low-bandwidth Transmission
Utilizes H.265 video codec for ultra-high-definition 4Kp30 video output on just 1Mbps bandwidth, reducing network infrastructure and operational costs.

Dual 4K Output
Features exceptional dual-stream collaboration, supporting dual 4K30+4K30 video stream output for detailed image quality and an excellent immersive meeting experience.

Convergence Conference
The video conferencing terminal supports Tencent Conference ROOMS and Dimension View private cloud conferencing, is compatible with standard SIP and H.323 private network conferencing, and is compatible with the industry's mainstream standard terminals and network-side equipment for a wider range of application scenarios.

Built-in MCU
Features an integrated Multi-Point Control Unit (MCU) to meet the simple networking and rapid meeting needs of small and medium-sized businesses, enhancing communication and collaboration efficiency in small meetings.

Open API
Provides a fully open API to support third-party application development, facilitating easy customer customization.

Infrared Passthrough
The terminal supports serial port infrared signal reception, allowing remote control signal reception through specific camera models, enabling hidden conference terminal setups while maintaining full control.

Remote & Local Recording
Offers remote recording capabilities with just a PC for conference recording. Supports USB flash drive recording for plug-and-play operation, ensuring secure and confidential meeting records.

Bilingual Audio Simultaneous Transmission
Supports simultaneous input and output of two different languages, allowing for flexible mixing and encoding of dual-language audio.

Superior Packet Loss Resistance
Features FEC proprietary technology to address severe network packet loss, with up to 20% packet loss having no impact on the system and maintaining normal conference operation at 30% packet loss, effectively solving network jitter and packet loss issues.

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

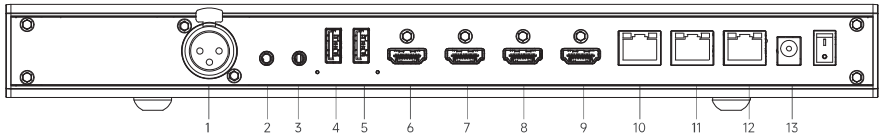
I/O

Audio Input Interface	1 × 3.5mm input, 1 × Cannon plug microphone input, 1 × RJ45 input, 1 × USB input, 1 × HDMI input
Audio Output Interface	1 × 3.5mm output, 2 × HDMI Audio output, 1 × USB output
Video Input Interface	2 × HDMI 1 × USB 1 × VIDEO(POE TOUCH)
Video Output Interface	2 × HDMI(3xHDMI Optional)
USB Interface	2 × USB3.0 (USB flash disk supported,USB Microphone etc)
Network Interface	2 × RJ45: 10/1000 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 Dimension: 375mm (W) × 428mm (D) × 89mm (H) • Package Dimension: 413mm (W) × 332mm (D) × 130mm (H) • Net weight: 1.4 Kg • Gross weight: 3.5 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

Interface Diagram



1 —— MIC IN
2 —— AUDIO IN
3 —— AUDIO OUT
4 —— USB
5 —— USB
6 —— HDMI OUT
7 —— HDMI OUT
8 —— HDMI IN
9 —— HDMI IN
10 —— RS232
11 —— NET
12 —— POE
13 —— DC12V