



## 4K Integrated Endpoint with 1+8 Embedded MCU



This advanced video conferencing terminal is designed for seamless virtual communication, supporting a wide range of multimedia, video, and audio codecs. With MCU for multipoint calling and optimized for high-quality dual 4K30 video streams, it delivers superior performance for boardrooms and large conferences. Its composition includes a 12x 4K PTZ camera, multiple input/output interfaces, and AI enhanced features like tracking and real time voice-to-text transcription. Offering advanced audio processing with automatic echo cancellation and noise suppression, it ensures clear communication. Scalable for up to 1+8 multipoint calls, the terminal is competitively priced for mid-to-large enterprises looking for future-proof, high-performance collaboration tools.

### Key Features

- 4K Dual Stream with AI Tracking:** Supports 4K30 dual stream with intelligent AI tracking, ensuring optimal presentation clarity and speaker focus-crucial in modern video conferencing solutions.
- Advanced Video & Audio Protocols:** Equipped with H.264, H.265 video codecs and high-quality audio codecs like AAC-LD and G.722, delivering superior audio-visual experience compared to legacy systems.
- MCU for Multipoint Calls:** Enables 1+8 multipoint calling without external hardware, meeting the growing demand for collaborative video meetings.
- Flexible Audio & Video Inputs:** Supports various inputs, including 12x PTZ 4K camera, HDMI, and USB, offering greater flexibility in device integration for modern meeting rooms.
- Voice-to-Text and Wireless Screen Projection:** Incorporates trending AI features like voice-to-text transcription and wireless screen projection for a seamless, hands-free collaboration experience.

## General Specifications

### Standards & Protocols (Optional)

**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

**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 (RTF/AVPF), SNTP, ARP

### Interfaces

**Audio Input Interface (6 Inputs) :** 1x built-in microphone input, 1x microphone input (mini XLR interface), supports phantom power, 1x 3.5mm linear input, 1x USB 3.0, 1x HDMI embedded audio input, 1x DMIC

**Audio Output Interface (4 Outputs) :** 1x 3.5mm linear output, 2x HDMI audio output, 1x USB output

**Video Input (4 Inputs) :** 1x 12x light variable 4K PTZ camera, 1x HDMI, 1x USB, 1x VIDEO (PoE TOUCH port)

**Video Output Interface (2 Outputs) :** 2x HDMI

**USB Interface :** 1x USB3.0 (supports USB flash drive, USB microphone, etc.)

**Network Interface** 2x RJ45: 10/1000 Base-T, Touch/DMIC port, 1x Wireless: 802.11 b/g/n Wi-Fi (optional)

**Other :** OLED display IP and registration number, AI tracking, voice to text, wireless screen projection, 4K dual screen display

**Bandwidth :** 64Kbps – 8Mbps

### Video Characteristics

**Active Image Resolution :** Supports 4K30 with a bandwidth of not less than 1Mbps and not less than 2Mbps, bandwidth supports dual 4K30 for primary and auxiliary streams, 1080P60 with a bandwidth of not less than 512Kbps, not less than 2Mbps bandwidth supports 4K60

**Data Content Resolution Inputs :**

VGA (640x480), SVGA (800x600), XGA (1024x768), WXGA (1280x768), WXGA (1360x768), 720p (1280x720), 1080p (1920x1080), 3840x2160;

**codecs:** 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160

**Active Dual Stream :** 4KP30+4KP30

**Other Image Properties :** Supports PIP, POP, and other display modes

### Built-in MCU

Multipoint Calling: 1+8 (Optional)

### Audio Characteristics

**Audio Characteristics :** Automatic Echo Cancellation (AEC), Automatic Gain Control (AGC), Automatic Noise Suppression (ANS), Supports lip sync

### General Characteristics

**Size :**

**Terminal dimensions (excluding protrusions):**

258mm x 146mm x 170mm,

**Net weight :** 2.0kg

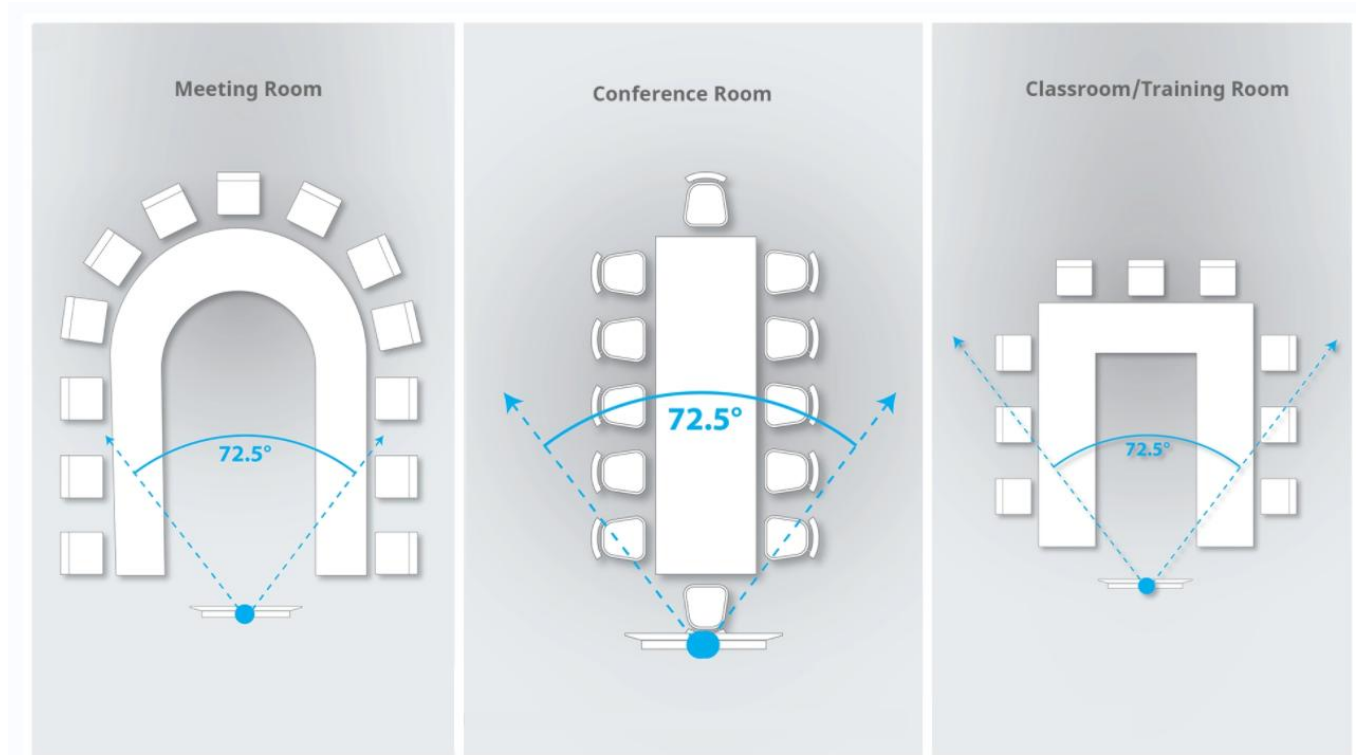
### Electrical Characteristics

- **Operating voltage :** DC 12V, Maximum power
- **Consumption :** 54W

### Environmental Requirements :

Temperature : 0° C – 40° C (working status), -40° C – 70° C (non-working status), Relative humidity : 10% – 80% (working status), 0% – 95% (nonworking status), Ambient noise: less than 46dBA SPL, Minimum illumination: 5lux, Recommended illumination: greater than 300lux

## Application Scenarios



**Disclaimer:-** Room setup diagrams provided for reference only. Actual room setup and size may vary as per requirements.

## Ordering Information

**4K Integrated Endpoint with 1+8 Embedded MCU**

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