4K Dual-lens PTZ Video Bar

Dual-Lens | PTZ | BYOM | Audio 3A algorithm | AI-assisted shooting

Dual-Lens Integration

This system featuresadual-lens design with both panoramic and close-up lenses equipped with 4K UHD CMOS sensors, delivering clear and detailed images. The panoramic lens offers a wide 120° angle for an expansive field of view, while the close-up lens features a 70° wide angle and 12x optical zoom, supported by a ±90° rotating mechanical pan-tilt head to accurately capture distant meeting details.

All-in-One Integration

The device integrates a 4K panoramic camera, a 4K close-up camera, a digital microphone array, and a stereo speaker into a single unit, achieving high integration with minimal cabling. This streamlined setup ensures a professional audio-visual experience for meetings with ease of deployment.

Group Framing

Equipped with facial, human shape recognition, and intelligent framing algorithms, it can identify the number of participants and their positional changes, automatically moving the lens and adjusting the focus to achieve intelligent composition and optimal framing.

Speaker Tracking

The built-in sound source localization algorithm automatically directs the camera towards the speaker when someone is talking, presenting a close-up in the center of the screen, delivering a "face-to-face" communication experience.

Presenter Tracking

Thespeaker features built-in gesture recognition, ReID, and ReFace track and capture shots as the speaker moves. recognition technologies, allowing it to activate tracking modewith simple gestures. The AI algorithm accurately identifies body shape and face, enabling the close-up camera to automatically.

AI-Powered Audio 3A Algorithm

AI-driven audio algorithms based on deep learning effectively eliminate echo, noise, and reverb, ensuring clear full-duplex audio conversations.

8-Meter Pickup

The built-in 6 MEMS beamforming microphone array automatically locates the source of the speaker's voice and adjusts to precisely capture it, ensuring consistent audio pickup. Coupled with audio 3A processing algorithms, The pickup range of the device is 8 meters, meeting the needs of medium to large conference rooms

POE Cascade Pickup

Built-in POE power supply network port, support cascade 3 M702 array microphone, can evenly cover a wider range of conference room scene, to provide equal and consistent pickup sound for each participant.

Full-Range Stereo Sound Reinforcement

Integrates a full-range high-fidelity speaker, professionally tuned to effectively reduce sound interference, outputting rich bass, full midrange, and clear treble, with natural and authentic human voices.

Wired and Wireless BYOM

Equipped with a built-in Wired Network or WiFi module, it supports participants using their familiar personal devices (such as laptops, smartphones, or tablets) to join meetings and access the integrated audio-video functions at any time. It also supports wired or wireless screen mirroring from computers to the device, allowing for local or remote meeting screen sharing without the need for cables.

Product Specification

▼ Close-up Camera

Signal System	4KP30, 1080P30, 720P30 etc.
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.29 Megapixels CMOS
Focal length	12x Optical zoom, f=4.4~51.1mm, F1.8~2.6
Horizontal FOV	70° ~7.4°
Vertical FOV	40° ~4.2°
Pan Angle	-90° ~ +90°
Tilt Angle	-23° ~ +23°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
PTZ	Support
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥ 50dB

▼ Panoramic Camera

Signal System	4KP30, 1080P30, 720P30, 640*360P30 etc.
Sensor	1/2.8 inches, CMOS, Effective Pixels: 8.51 Megapixels CMOS
Lens	Focal Length: 2.8mm, DFOV: 120°, HFOV: 110°, VFOV: 74.6°
EPTZ	Support
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥ 50dB

▼ Audio Spec

Speaker	2 full-range speakers, individual output power: 8W
Microphone Array	6 beamforming microphones with 8m pickup distance
Extended MIC	Supports up to 3 microphones via DMIC interface
Audio 3A Algorithm	AI-Powered AEC/ANC/AGC
Sampling Rate	Mic 48K, Speaker 48K

▼ USB Spec

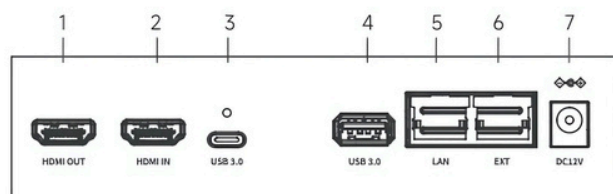|	
Operating System Supported	Windows® 7 (only supports 1080p and below), Windows 8.1, Windows 10 or higher; MacOS ™ 10.10 or higher; Google ™ Chromebook ™ Version 29.0.1547.70 or higher; Linux (requires support for UVC)
Configuration Requirements	2.4 GHz Intel ® Core 2 Duo processor or higher; 2GB memory or higher; USB 2.0 interface (4K requires USB 3.0)
Connection Type	USB 3.0, backward compatible with USB 2.0
Color System/Compression	H.264 / MJPEG / YUY2
USB Video Communication Protocol	UVC 1.1, UAC 1.0
UVC PTZ Control	Support (ePTZ)

▼ I/O

USB 3.0	1 × USB 3.0, Type-C, Support audio/video transmission and firmware upgrade
HDMI	1 × HDMI OUT; 1 × HDMI IN (optional)
USB 3.0	1 × USB 3.0, Type-A, Connecting a USB wired extension mic
Network Interface1	1 × RJ45, Connect to the network port expansion microphone and support PoE power supply
Network Interface2	1 × RJ45, 10/100/1000M adaptive Ethernet port, supporting network transmission of audio and video
Power Interface	DC 12V
WiFi	WiFi 5, Supports BYOM wireless transmission and BYOD wireless screen casting function (requires additional casting device)
Remote Control	Support

▼ Generic Spec

Safety Protection	Kingston anti-theft lock socket
Power	DC 12V
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimension (W x D x H)	Without Stand: 600 x 127.1 x 182.1mm With Stand: 600 x 127.1 x 217.1mm
Net Weight	TBD

Interface Diagram

1 —— HDMI OUT
2 —— HDMI IN (Optional)
3 —— USB3.0
4 —— USB3.0
5 —— LAN
6 —— EXT
7 —— DC 12V