

4K Dual-lens PTZ Video Bar

RB20



The RB20 is designed specifically for medium to large corporate meeting spaces, integrating dual-lens ultra-high-definition audio and video capabilities. It features a 4K ultra-high-definition panoramic and close-up camera system, digital microphone, and full-range speaker in a unified design, simplifying wiring and facilitating easy installation. With built-in advanced AI video processing algorithms, it automatically adjusts the camera framing based on the meeting dynamics.



FEATURES

▼ DUAL-LENS INTEGRATION

This system features a dual-lens design with 4K UHD CMOS sensors for both panoramic and close-up views, ensuring exceptional image clarity and detail. The panoramic lens provides a wide 117° field of view, while the close-up lens offers a 70° angle with 12x optical zoom.

▼ ALL-IN-ONE INTEGRATION

The device combines a 4K panoramic camera, a 4K close-up camera, a digital microphone array, and a full-range speaker into a single, highly integrated unit. This design minimizes cabling and ensures a professional, hassle-free audio-visual experience for meetings.

▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

AI technology recognizes the number and position of participants in the meeting room and automatically adjusts the camera angle for the best composition. It also identifies the speaker's voice source and quickly focuses and tracks their movements.

▼ SMART GALLERY

Powered by advanced AI algorithms for head, face, and body detection, the system automatically adjusts to multi-split screen layouts based on the number of participants. It captures and evenly displays close-ups of each participant, ensuring remote attendees can clearly see everyone, making meeting interactions more engaging and natural.

▼ SILENT MECHANICAL PTZ

This video bar is equipped with a silent mechanical pan-tilt-zoom (PTZ) feature, which allows its camera to rotate horizontally by ±90°. This ensures comprehensive, precise, and dynamic capture of distant meeting details, delivering an exceptional visual experience while ensuring no crucial element is overlooked.

▼ WIRELESS CONTENT SHARING AND BYOM

It features a built-in WiFi module, enabling participants to join meetings using their personal devices (laptops, smartphones, or tablets) and access integrated audio-video functions seamlessly. It also supports wireless screen mirroring from computers, allowing for both local and remote screen sharing without the need for cables.

▼ 8-METER AUDIO CAPTURE

The built-in beamforming microphone 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 device offers clear audio capture up to 8 meters, meeting the needs of medium to large conference rooms.

▼ FULL-RANGE STEREO SOUND

The integrated full-range stereo speakers are professionally tuned to minimize sound interference, delivering rich bass, full midrange, and clear treble, with natural and authentic human voices. The device ensures that remote voices are clearly transmitted to the meeting venue, facilitating more effective communication.

SPECIFICATIONS

▼ 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	70.1° ~7.4°
Vertical FOV	40.7° ~4.2°
Pan Angle	-90° ~ +90°
Tilt Angle	1 -23° ~ +23°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°
PTZ	Support
AF	Support
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB

▼ 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,(HFOV)117°
EPTZ	Support
White Balance	Auto
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB

▼ AUDIO SPEC

Speaker	2 full-range speakers, individual output power: 8W
Microphone Array	6 analog silicon microphones, beamforming microphones, pickup distance of 8 meters
Audio 3A Algorithm	Support
Sampling Rate	Mic 32K,Speaker 48K
Extended MIC	Supports DMIC interface to extend digital microphone

▼ 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

▼ I/O

USB 3.0	1 × USB 3.0, type-C, Support audio/video transmission and firmware upgrade
HDMI	1 × HDMI
USB 3.0	1 × USB3.0, 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
Bluetooth	Bluetooth 5.0
WiFi	WiFi 5, Supports BYOM wireless transmission and BYOD wireless screen casting function (requires additional casting device)
Remote Controller	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	Without Stand: 600mm(W) x 127.1mm(D) x 182.1mm(H) With Stand: 600mm(W) x 127.1mm(D) x 217.1mm(H)
Net Weight	TBD

INTERFACE

- 1 — HDMI OUT
- 2 — USB 3.0
- 3 — USB 3.0
- 4 — LAN
- 5 — EXT
- 6 — DC 12V
- 7 — ON/OFF

