

Dual-lens 4K All-in-One USB 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 both panoramic and close-up lenses equipped with 4K ultra-high-definition UHD CMOS sensors, delivering clear and detailed images. The panoramic lens offers a wide 117° angle for an expansive field of view, while the close-up lens features a 70° wide angle and 12x optical zoom, supported by a ±140° 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 full-range 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.

▼ SMART GALLERY

Featuring AI algorithms for heads, faces, and human shapes, it can automatically switch to multi-split screen layouts based on the number of participants, extracting and evenly arranging close-ups of each participant. This allows remote attendees to clearly see everyone, making the communication in meetings more vivid and natural.

▼ MULTI-CAMERA FUSION DIRECTING

The device is versatile and can be used independently in meetings or serve as a front camera position, complementing a 360° panoramic desktop camera to form an audio-visual collaborative solution. With a proprietary AI fusion directing system, it can automatically analyze and switch between the frontal images captured by the front camera and the multi-angle images from the panoramic camera.

▼ BYOD & BYOM MEETINGS

Equipped with a built-in 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 wireless screen mirroring from computers to the device, allowing for local or remote meeting screen sharing without the need for cables.

▼ 8-METER CLEAR 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 high-fidelity 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

▼ POWER INTERFACE

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)107°
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	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
USB 2.0	1 × USB2.0,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 × RJ45,10/100M 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) × 127.1mm(D) × 182.1mm(H) With Stand: 600mm(W) × 127.1mm(D) × 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

