

ROCWARE[®]

4K Dual-lens PTZ Video Bar

Dual-Lens Integration, Simplify Meetings for Medium to Large Rooms

RB20



Dual-Lens



Group Framing



Smart Gallery



120° wide FoV



Dual-Channel Amplifier

Designed for medium-to-large meeting rooms, RB20 integrates a 4K panoramic camera, close-up camera, digital microphone, and full-range speaker into a single unit, minimizing cabling and simplifying installation. Equipped with AI video processing algorithms, it dynamically tracks meeting participants, automatically adjusts framing, and captures panoramic and close-up views without manual intervention, delivering intelligent and seamless remote collaboration.

Dual-Lens Integration

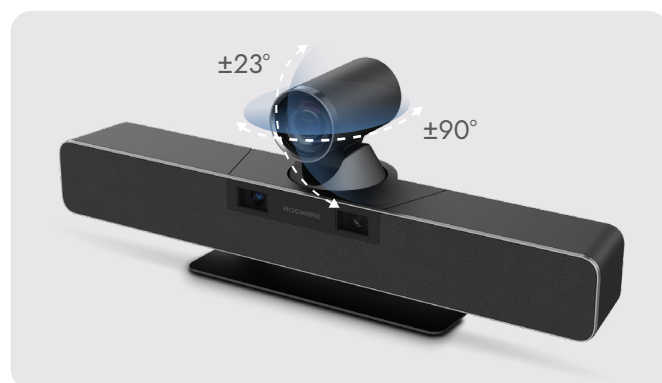


The RB20 features a dual-lens design with a 120° wide-angle 4K lens for panoramic views and a 70° wide-angle 12x optical zoom for detailed close-ups. It also supports dual video with a picture-in-picture display, enhancing the meeting experience.

4K Ultra-HD Image



The close-up lens uses a high-quality UHD CMOS sensor with a 1/2.5-inch size and 8.29 megapixels, while the panoramic lens uses a CMOS sensor with a 1/2.8-inch size and 8.51 megapixels, delivering clear images with 4K@30fps Ultra-HD resolution.



The close-up camera has a silent mechanical PTZ system, enabling horizontal rotation of $\pm 90^\circ$ and vertical rotation of $\pm 23^\circ$, enhancing its shooting range. The panoramic camera features an electronic PTZ for clear images during zooming.

Group Framing



With built-in face and human shape recognition and intelligent framing algorithms, it can identify the number of participants and their position changes, and automatically adjust the camera's viewing angle and focal length to ensure that everyone is clearly shown in the frame for the best shot.

Presenter Tracking



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

Smart Gallery



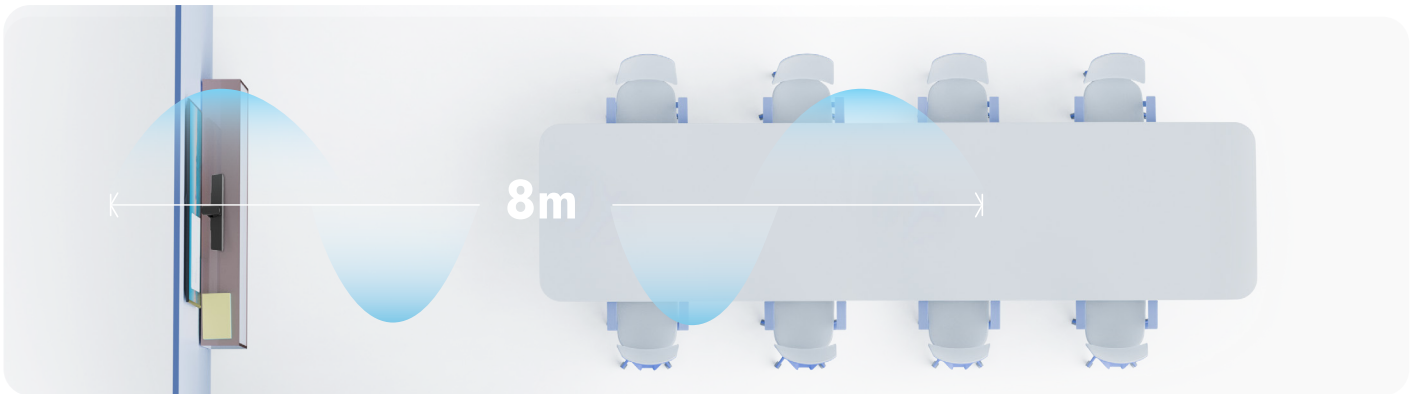
Powered by advanced AI algorithms for head, face, and body detection, the system automatically adjusts to multi-split screen layouts based on the number of participants. It captures and evenly displays close-ups of each participant, ensuring remote attendees can clearly see everyone, making meeting interactions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

Speaker Framing



RB20 has a built-in sound localization algorithm. When a participant speaks, the camera will lock onto the speaker based on sound, automatically changing the color of the close-up shot's border to indicate the speaker's position and provide a face-to-face communication experience.

8m Balanced Pickup



The built-in pickup array features 6 analog silicon microphones with beamforming technology and AI audio algorithms to suppress noise and reverberation. It ensures clear audio pickup within 8 meters and supports expandable microphones for extended range.

Hi-Fi Stereo Speaker



RB20 is equipped with 2 full-range speakers featuring bass-enhanced acoustic chambers, delivering rich, layered sound with 8W powerful output to ensure clear audio coverage throughout the entire conference space.

Wired & Wireless BYOM



Built-in Wi-Fi modular allows participants to join via personal devices (laptops, smartphones). Supports wireless screen mirroring to the system and displays for real-time content sharing.

RB20 SPECIFICATIONS

▼ Close-Up Camera

Video Resolution	4KP30, 1080P60, 720P60 etc.
Sensor	1/2.5 inches CMOS, Effective Pixels: 8.29 MP
Lens	12xOptical Zoom, f=4.4~51.1mm, F1.8~2.6
Horizontal FoV	70.1° ~ 7.4°
Vertical FoV	40.7° ~ 4.2°
Pan Range	-90° ~ +90°
Tilt Range	-23° ~ +23°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
Horizontal/Vertical Flip	Supported
Preset Positions	255
Preset Accuracy	0.1°
Mechanical Pan-Tilt	Supported
Auto Focus (AF)	Supported
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Supported
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥ 55dB

▼ Panoramic Camera

Video Resolution	4KP30, 1080P60, 720P60 etc.
Sensor	1/2.8-inches CMOS, Effective Pixels: 8.51MP
Lens	Focal Length, 2.8mm, DfOV: 120°, HfOV: 110°
Mechanical PTZ	Supported
EPTZ	Supported
White Balance	Auto
Backlight Compensation	Supported
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥ 55dB

▼ USB FEATURES

Supported Operating System	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 Supporting for UVC)
Hardware Requirement	2.4 GHz Intel® Core 2 Duo Processor or higher; 2 GB Memory or higher; USB 2.0 (USB 3.0 required for 4K)
Connection Type	USB 3.0, backward-compatible with USB 2.0
Color Space/Compression	MJPEG/YUY2/H.264
USB Video Communication Protocol	UVC 1.1, UAC 1.0
UVC PTZ Control	Support

▼ Audio

Full Range Speakers	2x8W
Microphone Array	6x Analog Silicon Mics, Beamforming, Up to 8m Pickup Range
Audio 3A Algorithm	Supported
Sampling Rate	32KHz, Support UAC1.0
Expandable Mic	Up to 3xPSE Cascaded Mics
3A Audio Processing	Automatic Noise Reduction, Automatic Echo Cancellation, Automatic Gain Control, De-Reverberation

▼ GENERAL SPECIFICATIONS

Security	Kingston Anti-theft Lock Socket
Input Voltage	DC 12V, 5A (Max)
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)
Weight	4kg



Independent Research and Development



Own Factory



support@rocware.com

Localized Audio and Video Technology

For 17 years since its establishment, Rocware has adhered to independent research, development and innovation, continuously invested in improvement, and fully mastered the core algorithm technology in the field of audio and video. The entire product line is independently controllable, safe, reliable, and highly competitive.

Complete Self-owned Supply Chain

Rocware has its own factory, it can independently complete part of the mold design and manufacturing, CNC processing, plastic injection molding and other basic material production. It also has an internationally advanced high-speed double-sided PCB SMT line, precision equipment assembly and testing line, to ensure product quality and stable supply.

Well-developed After-sales Support System

Rocware has set up five major marketing centers around the world, with more than 30 after-sales service outlets. It provides 7*12 hour customer service telephone support, as well as various online and offline technical support and after-sales services to comprehensively ensure the user experience.

ROCWARE®

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