4K Dual-Lens PTZ Videobar BYOM Bundle

RB20 Kit

Wired BYOM | Any Meeting | Smart AI | 4K UHD | Cascade 3 Micphones

Designed for business video conference screen-sharing scenarios in medium to large conference rooms. With single-cable and AI-powered pod BY42, Rocware links the laptop to the room's display, camera, audio of the dual-lens PTZ video bar RB20. Participants can easily create meeting rooms with any video conferencing software or webinar platform—including Microsoft Teams Rooms, Zoom Rooms, Google Meet Rooms and so on.



· RB20



· BY42

FEATURES

▼ SINGLE-CABLE BYOM

Plug and play. One cable links BY42 to RB20. One USB-C supporting PD links BY42 to the laptop. Just one click to start sreen sharing.

▼ 4K UHD SREEN-SHARING

Featuring an HDMI out interface. BY42 performs 4K@30fps UHD video quality and 48KHz voice projecting effect.

▼ DUAL-LENS INTEGRATION

Designed with dual-lens design with both panoramic and close-up lenses with 4K UHD CMOS sensor, it delivers 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

RB20 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.

▼ SECURITY & STABILITY

Wired BY42 ensures the security of meeting information by preventing it from being leaked from the local meeting room. It can handle ultra-high bandwidth and features ultra-low latency, anti-interference capabilities, avoiding signal lag, disconnection, delay or screen distortion.

▼ SUPPORTING ANY ROOMS

Participants can freely create any meeting rooms,including Microsoft Teams Rooms, Zoom Rooms, Google Meet Rooms and othe popular Rooms. Compatible with Windows, MacOS system.

▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Built-in AI algorithms for face, human shape recognition and sound source positioning, it supports group framing, speaker framing, presenter tracking and smart gallery modes without manual intervention.

▼ SMART AUDIO

Built-in 6 MEMS beamforming microphone array and audio 3A algorithm, it ensures audio pickup within 8 meters away. With PoE power supply network port, it supports cascade 3 RM702 array microphone for lager meeting space.

RB20 SPECIFICATIONS

▼ CLOSE-UP CAMERA

Video Resolution	4KP30, 1080P30, 720P30 etc.
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.29 Megapixels
Focal Length	f=4.4~51.1mm, F1.8~2.6
Optical Zoom	12x
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
SNR	≥ 50dB

▼ PANORAMIC CAMERA

Video Resolution	4KP30, 1080P30, 720P30, 640*360P30 etc.
Sensor	1/2.8 inches, CMOS, Effective Pixels: 8.51 Megapixels
Focal Length	2.8mm
Diagonal FOV	120°
Horizontal FOV	110°
Vertical FOV	75°
EPTZ	Support
White Balance	Auto
SNR	≥ 50dB

▼ AUDIO SPEC

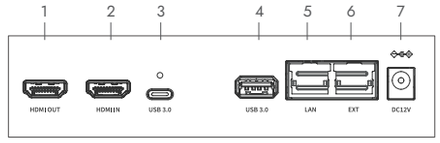
Speaker	2 full-range speakers, individual output power: 8W
Microphone Array	6 beamforming microphones with 8m pickup distance
Extended MIC	Supports up to 3 microphones via DMIC interface
Audio 3A Algorithm	AI-Powered AEC/ANC/AGC
Sampling Rate	Mic 48K, Speaker 48K

▼ I/O INTERFACES

USB 3.0	1 × USB 3.0, type-C, 1 × USB 3.0, type-A
HDMI	1 × HDMI OUT, 1 × HDMI IN
Network Interface	1 x RJ45
EXT Interface	1 x RJ45
Power Interface	DC 12V
WiFi	WiFi 5
Remote Controller	Support

▼ 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



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

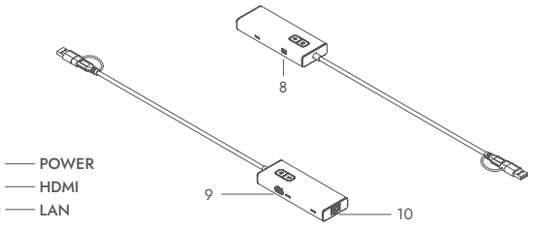
BY42 SPECIFICATIONS

▼ AUDIO AND VIDEO CHARACTERISTICS OF USB-C

USB-C Video Resolution	3840x2160, 2560x1600, 1920x1200, 1920x1080, 1366x768, 1280x800, 1280x720, 1024x768
Screen Mirroring Encoding Resolution/Frame Rate	Up to 3840x2160, 30fps
Video Encoding Format for Screen Mirroring	H.265/H.264
Audio Encoding Format for Screen Mirroring	32KHz/16bit PCM, Mono/Stereo
Return Encoding Resolution/ Frame Rat	Up to 1920x1080, 30fps
Return Video Encoding Format	MJPEG
Return Audio Encoding Format	32KHz/16bit PCM, Mono/Stereo

▼ I/O INTERFACES

USB-C	2 × USB 2.0 Type-C
Ethernet	1 × RJ45
HDMI	1 × HDMI 2.0



8 —— POWER
9 —— HDMI
10 —— LAN