



# PRODUCT CATALOG

*Committed to becoming a leader  
in the field of audio and video communication*



## Independent Research and Development

### 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.



## Own Factory

### 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.



## support@rocware.com

### 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 support, as well as various online and offline technical support and after-sales services to comprehensively ensure the user experience.



Email: [sales@rocware.com](mailto:sales@rocware.com)

Website: [www.rocware.com](http://www.rocware.com)

**Rocware (US) Inc.**  
1770 Evergreen Street  
Duarte, CA 91010

**Rocware Europe**  
Margriet Toren, Haaksbergweg  
75, Unit 9.1, WS19, 1101 BR  
Amsterdam, Nederland

**Rocware Asia**  
3-1 No.2, Honghui Industrial Park,  
Xin'an Street, Bao'an District,  
Shenzhen, China



Website



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# COMPANY INTRODUCTION

ROCWARE® is one of the world's leading audio and video technology companies. For over 17 years, the company has been dedicated to independent research and development of audio and video technology and equipment. Our product lineup includes PTZ cameras, USB webcams, video conferencing terminals, and microphones. We have also mastered the core algorithm technologies in the field of audio and video, enabling us to provide secure, reliable, and highly competitive audio and video products and industry solutions to customers across various industries worldwide.

Our products cater to the needs of multiple industries, including video conferencing, education, healthcare, and live streaming. They are compatible with major conference platforms such as Skype, Teams, and Zoom. Our mission is to help customers achieve remote meeting communication and collaboration more easily by offering high-quality products at competitive prices.

ROCWARE® works closely with customers from over 50 countries worldwide, and our solutions have gained wide recognition and trust. Whether it's improving work efficiency or enhancing remote collaboration, ROCWARE® is committed to helping customers achieve their goals.

## Core Audiovisual Technology



### **Image Signal Process**

AWB, AE, AF, Video Coding



### **Audio 3A Algorithm**

Acoustic Echo Cancelling(AEC); Automatic Gain Control(AGC)  
Automatic Noise Suppression(ANS)



### **AI Audio-Visual Algorithms**

- Auto Framing by AI Technology; Speaker Tracking; Automatic Program Direct; Automatic Generate Whiteboard Video Stream
- Noise Reduction by AI Technology; Sound Source Localization; Reverberation Elimination by AI Technology

## Cloud Video Conferencing Solutions

This solution addresses the problems of multiple devices, complex wiring and high maintenance difficulties in traditional video conferencing scenarios. It can be flexibly adapted to different meeting spaces of enterprises. Whether it's small, medium, or large conference rooms, a "good sound quality and clear video" video conferencing experience can be achieved through simple deployment, unleashing the digital vitality of the enterprise.



Smart Gallery

### ▼ AI-Powered Video Conferencing for Enhanced Efficiency

Rocware's cutting-edge products leverage advanced AI technologies, including smart framing and 3A (Automatic Gain Control, Noise Cancellation, Echo Cancellation) audio processing technology.

AI-powered framing brings remote meetings closer to face-to-face interactions, such as Group framing, speaker framing, presenter tracking, and smart gallery. This technology captures every move of participants with precision.

Equipped with array microphone pickup technology and AI 3A audio algorithms, our solutions effectively eliminate various noises, echoes, and reverberations in rooms, providing crystal-clear full-duplex audio for users and helping participants stay focused on meeting content.



Our AI- and cloud-driven communication environment significantly boosts productivity and efficiency, enabling businesses to swiftly adapt to evolving demands and achieve their goals with unparalleled precision and speed.



### ▼ BYOM solution with All-in-One design

Experience seamless video communications with our unique all-in-one design, such as videobar, panorama Camera, Presentation PTZ Camera, offering exceptional audio-visual effects through simple deployment. Our wired BYOM solution creates a high-quality, user-friendly meeting environment, perfect for the hybrid office trend centered around personal computers.



### ▼ Simple to implement, use, and manage

Design Principles of Our meeting room solutions: Deploy easy-to-use meeting systems with fewer components and simpler connections. Combined with a device management platform for centralized control, our approach significantly reduces system construction costs and daily operation and maintenance costs while improving the daily availability rate of the system.

## Comprehensive coverage of conference room spaces



### Huddle Room

#### 2~3 People

- Highly Integrated 3-in-1 design, plug-and-play
- 120° DFOV, 4K resolution with HDMI out
- Group Framing, Speaker Framing
- 6-meter pickup range and full-range speaker
- AI-Powered AEC, ANC, AFC
- BYOM via a single USB-C cable
- PD charging and network connection via USB-C

### Huddle Room

#### 2~3 People

- Highly Integrated 3-in-1 design, plug-and-play
- 360° Panoramic View for equitable meetings
- Quad-Lens stitching
- 4K resolution with HDMI out
- Speaker Framing, Smart Gallery, with Dynamic speaker view
- 3-meter pickup range and full-range speaker
- BYOM via a single USB-C cable, with integrated PD charging

### Small Room

#### 3-7 People

- Highly Integrated 3-in-1 Design, Simple to set-up and easy to use
- 20MP Sensor, 120° DFOV lens with mechanical PTZ
- Group Framing, Speaker Framing, Smart Gallery
- 6-meter pickup range and full-range speaker
- Optional BYOM kit
- Optional Lenovo ThinkSmart Kit Certified by Teams and Zoom



### Medium Meeting Room

#### 7~15 People

- Highly Integrated 3-in-1 Design, simple connectivity for quick setup
- 4K Dual-lens, Close-up Lens with 12x optical zoom and mechanical PTZ
- Group Framing, Speaker Framing, Presenter Tracking, Smart Gallery
- 8-meter pickup range and stereo speaker
- Optional BYOM kit
- Optional Lenovo ThinkSmart Kit Certified by Teams and Zoom

### Medium Meeting Room

#### 7~15 People

- Modular design for Lightning-fast deployment
- 72° HFOV lens with 12x optical zoom and mechanical PTZ
- Group Framing, Presenter Tracking
- Wireless speakerphone with 10-meter pickup range and Master-tuned 2-way speaker
- AI-Powered AEC, ANC, AGC
- Optional Lenovo ThinkSmart Kit Certified by Teams and Zoom

### Large Meeting Room





#### 15-25 People

- Modular design for Lightning-fast deployment
- 80° HFOV lens with 12x optical zoom and mechanical PTZ
- Group Framing, Presenter Tracking, Zone Tracking
- Up to 6 Array Microphones Cascading
- Independent high-gain Stereo speaker
- Optional Lenovo ThinkSmart Kit Certified by Teams and Zoom



## SPECIFICATION

	▼ Huddle and Small Rooms		▼ Small Room
Solution Component			
Room Size	2~3 People <8 m <sup>2</sup> (86sqf)		3~7 People <15 m <sup>2</sup> (160sqf)
Conference Camera	<b>RB10Lite</b> 4K USB Videobar	<b>RC360Pro</b> 4K 360° Panorama Camera	<b>RB10</b> 4K USB Videobar
Maximum Output Resolution	4K@60fps	4K@30fps	4K@30fps
Zoom Ratio	5X Digital Zoom	3X Digital Zoom	5X Digital Zoom
Field of View	120° DFOV	360° HFOV	120° DFOV°
Pan/Tilt Rotation Range	N/A	N/A	±15°/±15°
Conference Primary-Mic	RB10Lite Built-in 6*MEMS Mic Array	RC360Pro Built-in 6*MEMS Mic Array	RB10 Built-in 4*MEMS Mic Array
Expansion Mic	N/A	N/A	1~2 RM702
Pickup Distance	Built-in Mic: 4m	Built-in Mic: 3m	Built-in Mic: 6m Expansion Mics: Radius 3m
Conference Speaker	RB10 Lite Built-in:1*8W	RC360 Pro Built-in:1*6W	RB10 Built-in:1*8W
AI Framing Mode	Group Framing, Speaker Framing	Panoramic Stitching, Speaker Framing, Smart Gallery	Group Framing, Speaker Framing, Smart Gallery
AI 3A Audio Processing	Support	Support	Support
Cloud Conferencing Application	Teams/Zoom/Google Meet	Teams/Zoom/Google Meet	Rooms Client (Teams Rooms/Zoom Rooms) (Based on Windows)
Room System	N/A	N/A	RP1S+RT13/ThinkSmart Kit
BYOM Mode	USB-C (DP)	USB-C (DP)	BY42 (via Network)
Warranty	3-Year Limited Hardware Warranty		

	▼ Medium Meeting Room		▼ Large Meeting Room
Solution Component			 
Room Size	7~15 People <30 m <sup>2</sup> (320sqf)		15~25 People <60 m <sup>2</sup> (640sqf)
Conference Camera	<b>RB20</b> 4K Dual-lens PTZ Videobar	<b>RC821U</b> 1080P PTZ Camera	<b>RC941/RC841UX</b> 4K Dual-lens Presentation PTZ Camera/4K PTZ Camera
Maximum Output Resolution	4K@30fps	1080@60fps	4K@60fps
Zoom Ratio	12X Optical Zoom	12X Optical Zoom	12X Optical Zoom
Field of View	70° HFOV+110° HFOV	72.5° HFOV	80° HFOV
Pan/Tilt Rotation Range	±90°/±23°	±170°/-30° ~ +90°	±170°/-30° ~ +30° ±170°/-30° ~ +90°
Conference Primary-Mic	RB20 Built-in 6*MEMS Mic Array	A10W	RM702
Expansion Mic	1~3 RM702	N/A	2~6 RM702
Pickup Distance	Built-in Mic: 8m Expansion Mics: Radius 3m	A10W: 10m	RM702: Radius 3m
Conference Speaker	RB20 Built-in:2*8W	A10W: 1*15W	S22: 2*25W
AI Framing Mode	Group Framing, Speaker Framing, Presenter Tracking, Smart Gallery	Group Framing, Presenter Tracking	Group Framing, Presenter Tracking
AI 3A Audio Processing	Support	Support	Support
Cloud Conferencing Application	Rooms Client (Teams Rooms/Zoom Rooms) (Based on Windows)	Rooms Client (Teams Rooms/Zoom Rooms) (Based on Windows)	Rooms Client (Teams Rooms/Zoom Rooms) (Based on Windows)
Room System	RP1S+RT13/ThinkSmart Kit	RP1S+RT13/ThinkSmart Kit	RP1S+RT13/ThinkSmart Kit
BYOM Mode	BY42(via Network)	NO	BY42 (via Network, Only For RC941)
Warranty	3-Year Limited Hardware Warranty		

## Smart Classroom Solutions

Rocware® has developed a series of solutions for the education industry, covering blended learning, educational recording, broadcasting and seamless sound reinforcement. These solutions incorporate AI audiovisual technology innovation and product research and development capabilities, bringing more convenient operational management and more intelligent educational audiovisual experiences. They allow teachers to teach without burden and students to learn more easily, sparking new vitality in school teaching.

### ▼ Interactive teaching solution based on public cloud

This solution is specifically designed to meet the requirements of remote interactive teaching. It is based on a public cloud design, which results in lower installation costs. The solution mainly consists of 2 smart cameras and 1 digital microphone. It features a simple wiring setup and does not require additional independent control panels, live streaming, or recording devices. With this setup, an intelligent classroom environment can be easily established to facilitate interactive teaching.



Live Classroom



Interactive Teaching



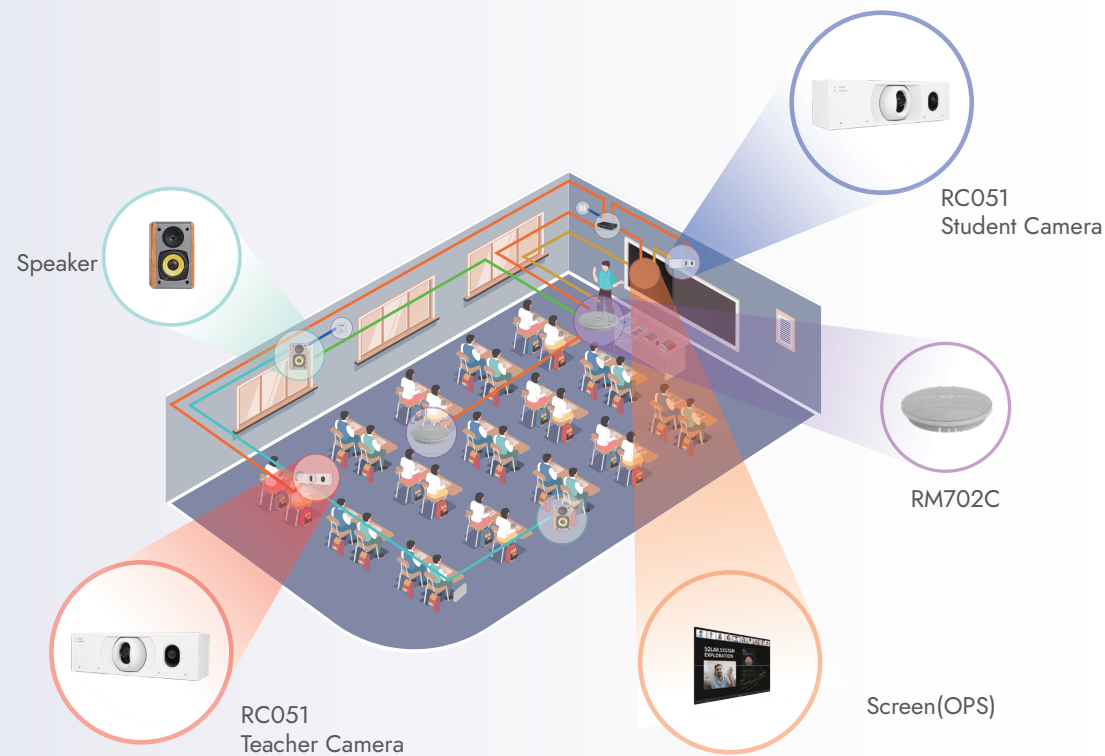
AI Director



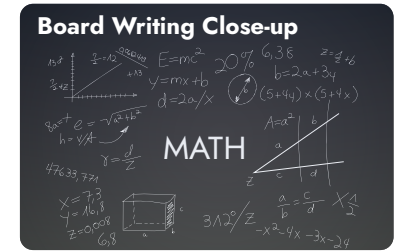
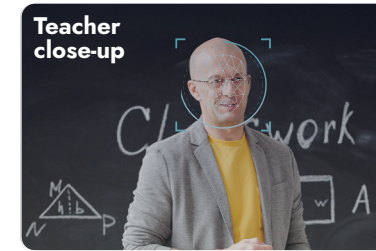
Smart Whiteboard



Supervision and Inspection



### ▼ Intelligent Tracking



### ▼ 4K Binocular



### ▼ Behavior Analysis





# 4K Dual-Lens PTZ Videobar

## RB20



Dual-Lens



PTZ



BYOM

Audio  
3A algorithmAI-assisted  
shooting

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 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 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.

### ▼ 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

The speaker 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 RM702 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.

## SPECIFICATIONS

### ▼ CLOSE-UP CAMERA

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
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 50dB

### ▼ PANORAMIC CAMERA

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
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 50dB

### ▼ VIDEO OUTPUT SPEC

Video Output Format	4KP30, 1080P30, 1080P60, 720P60
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### ▼ 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

### ▼ I/O INTERFACES

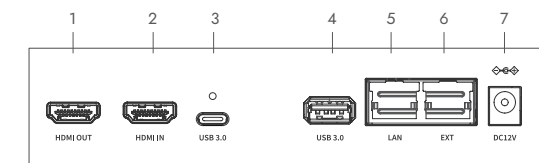
USB 3.0	1 × USB 3.0, type-C, Support audio/video transmission and firmware upgrade 1 × USB 3.0, type-A, Connecting a USB wired extension mic
HDMI	1 × HDMI OUT, 1 × HDMI IN
Network Interface	1 × RJ45, 10/100/1000M adaptive Ethernet port
EXT Interface	1 × RJ45, connects to expansion microphone or wired BYOM pod, and supports PSE power supply (IEEE802.3at)
Power Interface	DC 12V
WiFi	WiFi 5(IEEE 802.11ac), Supports wireless BYOM and wireless screen sharing(requires additional 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 (W × D × H)	Without Stand: 600 x 127.1 x 182.1mm With Stand: 600 x 127.1 x 217.1mm
Net Weight	4kg

## INTERFACE

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



# 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.



## 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 screen sharing.

### ▼ 4K UHD SCREEN-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 other 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 pickup within 8 meters away. With PoE power supply network port, it supports cascade 3 RM702 array microphone for larger meeting space.

## RB20 SPECIFICATIONS

### ▼ CLOSE-UP CAMERA

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

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

### ▼ VIDEO OUTPUT SPEC

Video Output Format	4KP30, 1080P30, 1080P60, 720P60
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### ▼ 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

## BY42 SPECIFICATIONS

### ▼ AUDIO AND VIDEO CHARACTERISTICS OF USB-C

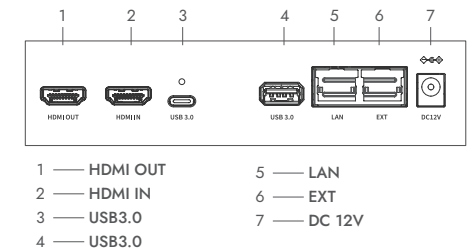
USB-C Video Resolution	3840x2160, 2560x1600, 1920x1200, 1920x1080, 1366x768, 1280x800, 1280x720, 1024x768
Screen Mirroring Encoding Resolution/Frame Rate	Up to 3840x2160, 30fps
Video Encoding Format for Screen Mirroring	H.265/H.264
Audio Encoding Format for Screen Mirroring	32KHz/16bit PCM, Mono/Stereo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

### ▼ 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 × RJ45
EXT Interface	1 × RJ45
Power Interface	DC 12V
WiFi	WiFi 5
Remote Controller	Support

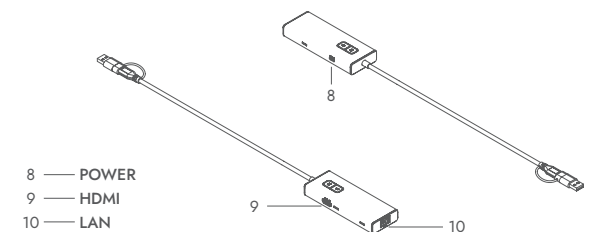
### ▼ USB SPEC

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



### ▼ I/O INTERFACES

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





## 4K Videobar

## RB10



The RB10 is a USB video bar integrated device designed for small to medium-sized enterprise meeting spaces. It features a 4K ultra-high-definition camera, a digital microphone, and a full-range speaker in a three-in-one design that minimizes cabling. The video resolution reaches up to 20 megapixels, allowing remote participants to see a clear panoramic view and close-ups of individuals in the meeting room. With multiple AI video processing algorithms, it enables efficient and intelligent remote communication and collaboration without the need for manual intervention.



## FEATURES

## ▼ INTEGRATED DESIGN

The all-in-one design combines a 4K UHD camera, beamforming microphone, and full-range speaker, simplifying setup and making video communication seamless.

## ▼ 20MP ULTRA-SHARP VISUAL EXPERIENCE

Featuring a 1/1.8-inch, 20-megapixel UHD CMOS sensor, it delivers clear 4K (3840x2160) video at 30fps. It's also backward compatible with 1080P and 720P to suit different video needs.

## ▼ WIDE FIELD OF VIEW

With a 120° wide field of view (110° horizontal), 5x digital zoom, and built-in electronic pan / tilt (±15°), the optical lens is designed for conference use, ensuring clear coverage of all participants.

## ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Built-in AI algorithms for face and human shape recognition automatically adjust the lens to frame participants as they move. The sound source positioning algorithm locks onto the speaker, focusing on them without manual intervention.

## ▼ 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.

## ▼ 6M PICKUP

The beamforming microphone uses a low-distortion lateral beamforming algorithm to directly target the speaker, ensuring balanced audio pickup with the range of up to 6 meters.

## ▼ POE CASCADE PICKUP

Built-in POE power supply network port, support cascade 3 RM702 array microphone, can evenly cover a wider range of conference room scene, to provide equal and consistent pickup sound for each participant.

## ▼ FULL-RANGE 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 &amp; 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.

## SPECIFICATIONS

## ▼ CAMERA SPEC

Video Resolution	4KP30, 1080P30, 1080P60, 720P60
Sensor	1/1.8 inches, CMOS, Effective Pixels: 20 Megapixels
Horizontal FOV	110°
Diagonal FOV	120°
Digital zoom	5x
Pan Angle	±15°
Tilt Angle	±15°
PTZ	Mechanical PTZ (MPTZ) + e-PTZ (EPTZ)
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB
Backlight Compensation	Support

## ▼ AUDIO SPEC

Full-frequency Speaker	96 dB SPL at 0.5 m
Microphone Array	Beamforming microphone with 6m pickup distance
Expansion 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

Type of Connection	USB 3.0, downward compatible with USB 2.0
Color System / Compression	H.264 / YUY2 / MJPEG
USB Audio	48KHz sampling rate, UAC 1.0 support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support(ePTZ)

## ▼ I/O INTERFACES

USB 3.0	1 × USB 3.0, type-C, Support audio/video transmission and firmware upgrade 1 × USB 3.0, type-A, Connecting a USB wired extension mic
HDMI	1 × HDMI OUT, 1 × HDMI IN
Network Interface	1 × RJ45, 10/100/1000M adaptive Ethernet port
EXT Interface	1 × RJ45, connects to expansion microphone or wired BYOM pod, and supports PSE power supply (IEEE802.3at)
Power	1 × Power connector
WiFi	WiFi 5(IEEE 802.11ac), Supports wireless BYOM and wireless screen sharing(requires additional device)
Remote Controller	Support

## ▼ OTHERS

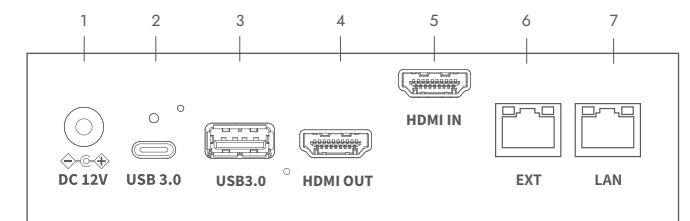
Installation Method	Support desktop placement, wallmounting and TV-mounting etc.
Supplied Cables	USB/HDMI Cable
Safety Protection	Anti-theft lock

## ▼ GENERIC SPEC

Power Supply	DC 12V, 5A (MAX)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimension (W × D × H)	600× 135 × 117mm
Net Weight	2.5 Kg

## INTERFACE

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



# 4K Videobar BYOM Bundle

## RB10 Kit



The 4K USB video bar bundle is designed for business video conference screen-sharing scenarios in small to medium conference rooms. With single-cable and AI-powered pod BY42, Rocware links the laptop to the room's display, camera, audio of the 4K USB video bar RB10. Participants can easily create meeting rooms with any video conferencing software or webinar platform—including Microsoft Teams Rooms, Zoom Rooms, Google Meet Rooms and other popular Rooms.



## FEATURES

### ▼ SINGLE-CABLE BYOM

Plug and play. One cable links BY42 to RB10. One USB-C supporting PD links BY42 to the laptop. Just one click to start screen sharing.

### ▼ 4K UHD SCREEN-SHARING

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

### ▼ 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.

### ▼ 20MP ULTRA-SHARP VISUAL EXPERIENCE

Featuring a 1/1.8-inch, 20-megapixel UHD CMOS sensor, it delivers clear 4K (3840x2160) video at 30fps. It's also backward compatible with 1080P and 720P to suit different video needs.

### ▼ SUPPORTING ANY ROOMS

Participants can freely create any meeting Rooms, including Microsoft Teams Rooms, Zoom Rooms, Google Meet Rooms and other 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 and smart gallery modes without manual intervention.

### ▼ SMART AUDIO

Built-in 4 MEMS microphone array, beamforming and audio 3A algorithm, it ensures audio pickup within 6 meters away. With PoE power supply network port, it supports cascade 3 RM702 array microphone for larger meeting space.

### ▼ WIDE FIELD OF VIEW

With a 120° wide field of view (110° horizontal), 5x digital zoom, and built-in electronic pan / tilt  $\pm 15^\circ$  the optical lens is designed for conference use, ensuring clear coverage of all participants.

## RB10 SPECIFICATIONS

### ▼ CAMERA SPEC

Video Resolution	4KP30, 1080P30, 1080P60, 720P60
Sensor	1/1.8 inches, CMOS, Effective Pixels: 20 Megapixels
Horizontal FOV	110°
Diagonal FOV	120°
Digital zoom	5x
Pan Angle	$\pm 15^\circ$
Tilt Angle	$\pm 15^\circ$
PTZ	Mechanical PTZ (MPTZ) + e-PTZ (EPTZ)
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	$\geq 55\text{dB}$
Backlight Compensation	Support

### ▼ USB SPEC

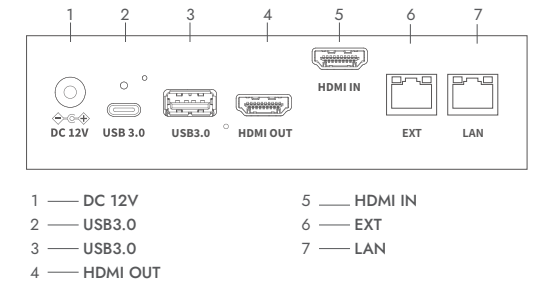
Type of Connection	USB 3.0, downward compatible with USB 2.0
Color System / Compression	H.264 / YUY2 / MJPEG
USB Audio	48KHz sampling rate, UAC 1.0 support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support(ePTZ)

### ▼ 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 × RJ45, 10/100/1000M adaptive Ethernet port
EXT Interface	1 × RJ45
Power	1 × Power connector
WiFi	WiFi 5(IEEE 802.11ac)
Remote Controller	Support

### ▼ AUDIO SPEC

Full-frequency Speaker	96 dB SPL at 0.5 m
Microphone Array	Beamforming microphone with 6m pickup distance
Expansion MIC	Supports up to 3 microphones via DMIC interface
Audio 3A Algorithm	AI-Powered AEC/ANC/AGC
Sampling Rate	Mic 48K, Speaker 48K



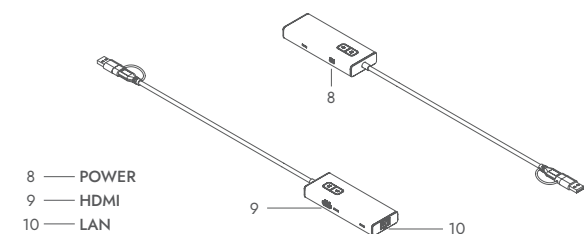
## BY42 SPECIFICATIONS

### ▼ 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



## ALL-IN-ONE VIDEO BAR

# 4K BYOM Videobar

### RB10Lite



The RB10Lite is an all-in-one videobar specifically designed for huddle rooms, ideation spaces, open areas, and more. It features a 4K camera, a six-microphone array, and a full-range speaker, and equipping with AI-Powered framing and noise cancellation algorithms. The RB10Lite supports “one-cable connection with USB-C” BYOM mode, providing a high-quality remote conferencing environment in the simplest way.



## FEATURES

### ▼ ALL-IN-ONE DESIGN

The 4K camera, microphone, and speaker are integrated into a single unit. It supports various installation methods, enabling plug-and-play deployment in any meeting space.

### ▼ SINGLE-CABLE BYOM

It supports USB-C single-cable BYOM Mode, along with 4K local screen mirroring for flexible and efficient collaboration during meetings.

### ▼ MULTI-PURPOSE USB-C

The USB-C interface supports reverse PD charging and a 100Mbps network connection, integrating audio, video, power, and data. This minimizes cable clutter, simplifies power and network setups, keeps desktops tidy, and enhances the BYOM experience.

### ▼ ULTRA-HD VISION

A 4K ultra-HD camera featuring a 120° ultra-wide viewing angle offers a detailed view of the entire meeting space. An electric lens cover is included for privacy protection.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Utilizing advanced AI video algorithms, it offers shooting modes like group framing, speaker framing. It automatically focuses on the speaker without any complicated operations, providing the best meeting view and improving communication focus.

### ▼ 6M PICKUP AND HIGH-FIDELITY REINFORCEMENT

Features a 6-element mic array with beamforming technology, supporting 6-meter voice pickup. The high-fidelity full-range speaker delivers crystal-clear audio with full-room coverage.

### ▼ AI-POWERED AUDIO 3A ALGORITHM

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

## SPECIFICATIONS

### ▼ CAMERA SPEC

Video Resolution	4KP60, 4KP30, 1080P60, 1080P30, 720P60, 720P30
Sensor	1/2.8-inch CMOS with 8MP effective pixels
Optical Lens	DFOV 120°, HFOV 110°, VFOV 75°
Zoom	5X HD digital zoom
Privacy Cover	Built-in electric sliding type
Digital Noise Reduction	2D & 3D digital noise reduction
Signal-to-Noise Ratio	≥ 50dB
Backlight Compensation	Supported

### ▼ MICROPHONE

Type	6 omnidirectional MEMS microphone array with beamforming technology
Pickup Range	Effective pickup distance 6 meters

### ▼ SPEAKER

Driver Type	1* 1.5-inch full-range unit with dual-diaphragm sound cavity
Rated Power/Impedance	5W/4Ω (max power 8W)

### ▼ AI VIDEO FEATURES

Group Framing	Supported
Speaker Framing	Supported

### ▼ AI AUDIO FEATURES

AI Noise Cancellation (ANC)	Supported
AI Echo Cancellation (AEC)	Supported
AI Reverb Cancellation	Supported
Automatic Gain Control (AGC)	Supported

### ▼ INSTALLATION

Installation Methods	Integrated multi-function bracket, supporting desktop, wall-mounted, and TV top-mounted
Anti-theft Lock Jack	Supported

### ▼ USB FEATURES

Connection Type	USB 3.0, backward-compatible with USB 2.0
Color Space/Compression	MJPEG / YUY2 / H.264
USB Audio Sampling Rate	48K
USB Audio Communication Protocol	UAC1.0
USB Video Communication Protocol	UVC1.1
UVC EPTZ Control	Supported

### ▼ I/O INTERFACES

USB Type-C	1 x USB 3.0, Type-A; 1 x USB 3.0, Type-C; supporting USB audio and video transmission and PD ALT mode, with reverse PD charging (up to 45W)
HDMI Out	1 x HDMI 2.0, with a maximum resolution of 4KP60
Network Port	1 x RJ45 10/100/1000 Base-T, supporting PoE (IEEE802.3at)
Power Interface	1 x USB Type-C (65W PD charging)

### ▼ SYSTEM COMPATIBILITY

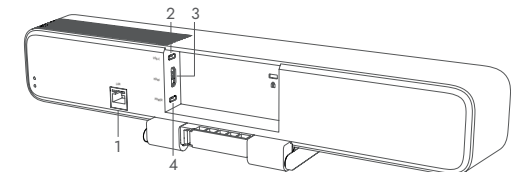
OS Requirements Under BYOM Mode	Windows 10 or higher; Mac OS 10.0 or higher
Cloud Conferencing Software Compatibility Under BYOM Mode	Microsoft Teams, Zoom, Bluejeans, Google Meet, Cisco Webex, etc
Centralized Device Management System	Supported

### ▼ GENERAL SPECIFICATIONS

AC Power	Input: AC 100 - 240V 50/60Hz; Output: PD 20V/3.25A (MAX)
PoE Power Supply	IEEE802.3 at, 48V/0.5A
Operating/Storage Temperature	0°C - 40°C / - 40°C - 60°C
Operating/Storage Humidity	10% - 95%
Dimension (L x H x D)	400 x 60 x 60 mm (excluding bracket)
Net Weight	0.9 kg
Certifications and standards	Certifications and Standards: CE, FCC, ROHS, Reach, WEEE

## INTERFACE

- 1 — LAN
- 2 — USB-C
- 3 — HDMI
- 4 — POWER



## ALL-IN-ONE VIDEO BAR

# 4K USB Videobar

### RC10



4K 30fps



Smart  
Gallery



121°  
Wide Angle



Group Framing  
With  
AI Technology



Speaker  
Framing

RC10 is a HD USB audio and video all-in-one machine designed specifically for small and medium-sized meeting rooms. It integrates a HD camera, beamforming microphone, and full-range speaker into one device, effectively reducing installation and wiring while delivering a 4K UHD video conferencing experience. It helps businesses conduct efficient business negotiations and remote team collaborations.



## FEATURES

### ▼ ALL-IN-ONE

Integrates a 4K Ultra HD camera, beamforming microphone and fullrange speaker into a three-in-one design for easy setup of video conferences.

### ▼ 4K UHD

Utilizes a 1/2.5-inch, 8.51-megapixel UHD CMOS sensor, delivering 4K@30fps UHD resolution images. It is also backward compatible with various resolutions, including 1080p and 720p.

### ▼ 121° WIDE FOV

With a wide-angle lens of 121° and 5x zoom, combined with ±15° horizontal and vertical rotation through the pan-tilt mechanism, it can capture a larger number of participants in a single frame.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Built-in AI algorithms for face and human shape recognition automatically adjust the lens to frame participants as they move. The sound source positioning algorithm locks onto the speaker, focusing on them without manual intervention.

### ▼ 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.

### ▼ CLEAR AUDIO PICKUP UP TO 6M

Built-in low-distortion beamforming algorithm and Audio 3A algorithm, ensure clear and full audio pickup within a range of 6 meters, regardless of distance.

### ▼ SUPPORTS POE CASCADING FOR AUDIO PICKUP

Supports cascading of up to 2 RM702 array microphones. Power and audio signal transmission to the microphones are achieved through the POE network port (RJ45). This setup ensures even coverage in larger conference room scenarios, delivering equal and consistent audio pickup for every participant.

### ▼ FULL-RANGE SPEAKER

The device features a full-range speaker that undergoes professional tuning, effectively reducing sound interference and delivering a clear and natural sound.

### ▼ VARIOUS INSTALLATION OPTIONS

Supports multiple installation methods, including tabletop placement, wall mounting, and TV/display screen mounting. Allow the users to choose installation methods based on their needs.

## SPECIFICATIONS

### ▼ CAMERA

Video Resolution	4K@30fps, 1080P@30fps, 720P@30fps, etc.
Sensor	1/2.5", CMOS, 8.51 Megapixels
Optical Lens	121°(DFOV), 110°(HFOV), 5x digital zoom, Level/pitch ±15°
PTZ	Mechanical PTZ, Electronic PTZ
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥ 55dB

### ▼ AUDIO FEATURE

Full Range Speaker	96 dB SPL at 0.5m
Mic-array	Beamforming mic, Pickup distance 6m
Expand Mic	Support <sup>1</sup>

### ▼ I/O INTERFACES

HDMI Output	1 x HDMI 1.4b
Network Interface	1 x RJ45: 10M/100M Adaptive Ethernet <sup>1</sup> , support PSE
Audio Interface	1 x RJ45: D-MIC, Support Microphone Cascading
USB Interface	1 x USB3.0, Type C, 1 x USB2.0, Type A
Wireless	Bluetooth 5.0

### ▼ USB FEATURES

Operating System	Windows® 7 (only 1080P and below support), Windows 8.1, Windows 10 or higher macOS™ 10.10 Or higher Linux (Support UVC), Android
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB memory or higher USB 2.0
Color System / Compression	MJPEG / YUY2
USB Video Communication Protocol	UVC 1.1

### ▼ OTHER

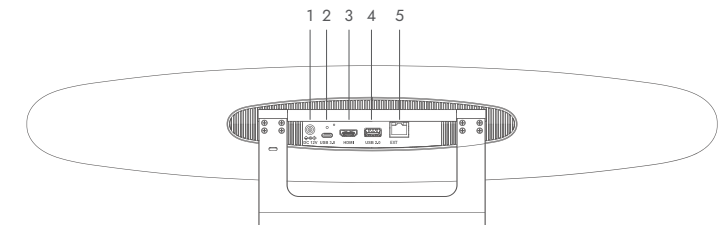
Installation Mode	Supports various installation methods such as desktop placement, wall mounting, and TV mounting
Standard Cable	USB 3.0 cable
Safety Protection Measures	Anti-theft lock socket design

### ▼ GENERAL SPECIFICATION

Power	DC 12V, 2A (Max)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Dimension (W x D x H)	600 x 117 x 135mm
Weight	2.5kg

## INTERFACE

- 1 — DC 12V Power Jack
- 2 — USB 3.0 Interface
- 3 — HDMI Interface
- 4 — USB 2.0 Interface
- 5 — RJ45 Interface





# 4K 360° BYOM Panorama Camera

## RC360Pro



All-in-One



360° Panoramic View



BYOM



Smart Gallery



6 MEMS Array Microphones

The RC360Pro is an all-in-one Tabletop camera for huddle rooms. It features four ultra-wide-angle lenses for 360° views, six-array microphones, and full-range speakers. With built-in AI-Powered framing and noise cancellation algorithms, it supports “one-cable connection with USB-C” BYOM mode for effortless and quick setup. This device overcomes the limitations of traditional views by providing close-up images of all participants, significantly enhancing interactivity and the sense of involvement during remote collaborations.



## FEATURES

### ▼ ALL-IN-ONE DESIGN

Designed for huddle rooms, this lightweight product features a quad-camera stitching system, an array microphone, and a speaker. It's plug-and-play—just place it in the center of the table and turn it on.

### ▼ 360° IMAGING FOR EQUITABLE MEETINGS

With four ultra-wide-angle lenses and a real-time video stitching algorithm, it provides a 360° panoramic view, fostering a smooth and collaborative remote interaction environment that enhances meeting focus and efficiency.

### ▼ ULTRA-HD VISION

Features four 4K CMOS image sensors with an ultra-high resolution of up to 16K x 2K and supports 4KP30 output for a detailed picture. A manual rotating lens cover is included to safeguard privacy.

### ▼ SINGLE-CABLE BYOM

Supports the USB-C single-cable BYOM application mode. It enables 4K local screen mirroring via HDMI output. The USB-C interface offers reverse PD charging, reducing cable clutter and eliminating power concerns for laptops. It is compatible with various meeting platforms for flexible and efficient collaboration.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Incorporates advanced AI video algorithms with features like speaker framing, and smart gallery, automatically focusing on the speaker to enhance meeting communication.

### ▼ DYNAMIC LAYOUT MODES

Provides various screen layouts for different meeting scenarios, allowing users to switch between 360° panoramic stitching, speaker close-up, and multi-person split-screen views, with automatic adaptation to active speakers.

### ▼ OMNIDIRECTIONAL PICKUP AND SOUND REINFORCEMENT

Features 6 MEMS array microphones with a clear pickup range of 3 meters. The built-in compact full-range speaker, along with a specially designed sound cavity, enables omnidirectional sound amplification to effectively cover the entire area.

### ▼ ADAPTIVE AUDIO 3A ALGORITHM

Integrates 3A (AEC/AGC/ANS) audio algorithms to eliminate echo, noise, and reverb, ensuring clear full-duplex audio conversations.

## SPECIFICATIONS

### ▼ CAMERA

Video Resolution	4KP30, 1080P30, 720P30
Sensor	4 x 1/2.8-inch CMOS, 4 x 8 MP effective pixels
Lens	4x ultra-wide-angle fixed-focus lenses, HFOV: 120°, Stitched FOV(HFOV): 360°
Zoom	3X HD digital zoom
Privacy Cover	Built-in/manual rotating
Digital Noise Reduction	2D & 3D digital noise reduction
Signal-to-Noise Ratio	≥ 50dB
Backlight Compensation	Supported

### ▼ MICROPHONE

Type	6 omnidirectional MEMS microphone array with beamforming technology
Pickup Range	Clear pickup distance of 3 meters

### ▼ SPEAKER

Driver Type	1* 1.5-inch full-range unit with dual-diaphragm sound cavity
Rated Power/Impedance	4W/4Ω (max power 6W)

### ▼ AI VIDEO FEATURES

Panoramic Stitching	Supported
Speaker Framing	Supported
Smart Gallery	Supported

### ▼ AUDIO FEATURES

Noise Cancellation (ANC)	Supported
Echo Cancellation (AEC)	Supported
Automatic Gain Control (AGC)	Supported

### ▼ SYSTEM COMPATIBILITY

OS Requirements Under BYOM Mode	Windows 10 or higher; Mac OS 10.0 or higher
Cloud Conferencing Software Compatibility Under BYOM Mode	Microsoft Teams, Zoom client, Bluejeans, Google Meet, Cisco Webex, etc
Centralized Device Management System	Supported

### ▼ USB FEATURES

Connection Type	USB 3.0, backward-compatible with USB 2.0
Color Space/Compression	MJPEG / YUY2 / H.264
USB Audio Sampling Rate	48K
USB Audio Communication Protocol	UAC1.0
USB Video Communication Protocol	UVC1.1
UVC PTZ Control	Supported

### ▼ I/O INTERFACES

USB Type-C	1 x USB 3.0 Type-C, supporting USB audio and video transmission and DP ALT mode, with reverse PD charging (up to 40W)
HDMI Out	1 x HDMI 2.0, with a maximum resolution of 4KP30
Network Port	1 x RJ45 10/100/1000 Base-T, supporting PoE (IEEE802.3at)
Power Interface	1 x USB Type-C Power Interface (65W PD charging)

### ▼ INSTALLATION

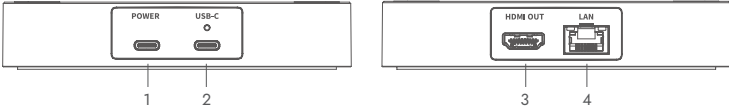
Installation Methods	desktop placement
Anti-theft Lock Jack	Supported

### ▼ GENERAL SPECIFICATIONS

AC Power	Input: AC 100 - 240V 50/60Hz; Output: PD 20V/3.25A (MAX)
PoE Power Supply	IEEE802.3 at, 48V/0.5A
Operating/Storage Temperature	0°C - 40°C / - 40°C - 60°C
Operating/Storage Humidity	10% - 95%
Dimensions (L x H x D)	128 x 128 x 302mm
Net Weight	1.5kg
Certifications and Standards	CE, FCC, ROHS, Reach, WEEE


## INTERFACE

- 1 — POWER
- 2 — USB-C
- 3 — HDMI OUT
- 4 — LAN




# 4K Dual-Lens Presentation PTZ Camera


## RC941




4K 60fps




80° Wide Angle



12x Optical Zoom



Group Framing



Presenter Tracking



The RC941 is a UHD video conferencing camera tailored for medium to large conference rooms. Equipped with the latest 1/2.7-inch 4K CMOS sensor, it delivers a stunning 3840x2160 resolution for exceptional image quality, ensuring a more detailed and lifelike video conferencing experience.

## FEATURES

### ▼ DUAL ULTRA-HD COORDINATED CAMERAS

Equipped with a 12x Optical Zoom PTZ Camera and a 95° Ultra Wide Angle Fixed-Focus Camera, it captures close-up shots and performs AI detection across the entire scene simultaneously. Supporting split-screen display of close-up and panoramic views, it offers richer perspectives of the venue, clearer and more detailed portraits, and more precise AI recognition capabilities.

### ▼ POWERFUL AI FEATURES

supports presenter tracking, group framing, zone tracking, gesture control, and other AI-powered features. It can adapt to various meeting scenarios, lock onto key speakers, and continuously adjust to capture close-up shots automatically.

### ▼ COMPREHENSIVE AUDIO INTEGRATION

The system supports multiple audio interfaces, including digital microphones, analog audio, USB audio, HDMI audio, and network audio. It allows the connection of microphones, speakers, audio mixers, and other professional audio equipment, offering extensive external audio expansion. This enables seamless audio and video integration, supporting the BYOM mode without needing additional devices.

### ▼ DUAL-MODE BYOM

Supports both wireless and wired connections (via accessories) to a laptop, enabling flexible BYOM usage modes. It makes the meeting experience easier and more flexible.

### ▼ ULTIMATE ULTRA-HD IMAGE QUALITY

The PTZ camera features a new generation 1/1.8-inch UHD CMOS sensor with a maximum resolution of 8.42 megapixels. It supports smooth 4K@60fps video output. The high-quality optical lens provides a 80° horizontal angle of view, covering a wide area of the meeting room. It offers lossless optical zoom and flexible focus, delivering unparalleled ultra-high-definition image quality.

### ▼ MULTIPLE VIDEO INTERFACES

The system supports 2 HDMI outputs, 1 USB 3.0 port, all capable of synchronously delivering 4K video quality, which can satisfy the integration requirements of various meeting room.

## SPECIFICATIONS

### ▼ CLOSE-UP CAMERA

Video Resolution	4KP60/50, 1080P60/50
Sensor	1/1.8", CMOS, 8.42 Megapixels
Scanning Mode	Progressive
Lens	f4.81mm ~f57.8mm, F1.8 ~ F3.6
Optical Zoom	12x
Digital Zoom	5x
Minimum Illuminance	0.005Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥38dB
Horizontal Angle of View	80° ~ 7.5°
Vertical Angle of View	50° ~ 4.3°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +30°
Pan Speed Range	0.86°~46.64°/S
Tilt Speed Range	0.35°~14.53°/S
H & V Flip	Support
Image Freeze	Support
Number of Preset	255

### ▼ I/O INTERFACES

USB Interface	1 x USB 3.0, Type-C; 1 x USB 3.0, Type-A
Audio Input Interface	Built-in dual MIC
HDMI Input Interface	1 x HDMI 2.1
HDMI Output Interface	2 x HDMI 2.0
Network Interface	1 x RJ45: 10M/100M/1000M Adaptive Ethernet(Reserved); 1 x PSE(802.3at); WIFI5
Audio Interface	1 x Line In, 1 x Line Out; 1 x MIC In, 48V phantom power; 1 x DMIC; 1 x USB
Power Jack	JEITA type (DC IN 12V)

### ▼ PANORAMIC CAMERA

Sensor	1/2.7", CMOS, 8.30 Megapixels
Scanning Mode	Progressive
Lens	f3.0 ±5%
Digital Zoom	5x
Minimum Illuminance	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥38dB
Diagonal FOV	95°
Horizontal Angle of View	86°
Vertical Angle of View	54°
H & V Flip	Support

### ▼ USB FEATURES

Operating System	Windows 7, 8, 10, 11, Mac OS X, Linux, Android
Color System/Compression	YUY2 / H.264/MJPEG/H.265
Video Format	YUY2 (Isochronous): Max 1080P60; MJPEG: Max 2160P60; H.264 : Max 2160P60; H.265 HEVC : Max 2160P60;
USB Audio	Support
USB Video Communication Protocol	UVC 1.1, UVC 1.0
UVC PTZ Control	Support

### ▼ GENERAL SPECIFICATION

Input Voltage	DC 12V
Input Current	12V 3A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	36W
MTBF	>30000H
Dimension (W x D x H)	233 x 154.8 x165mm
Weight	2.5kg

## INTERFACE

- 1 — USB TYPE-C Interface

2 — LINE IN Interface

3 — MIC IN Interface

4 — LINE OUT Interface

5 — USB 3.0 Interface

6 — HDMI IN Interface

7 — HDMI OUT1 Interface

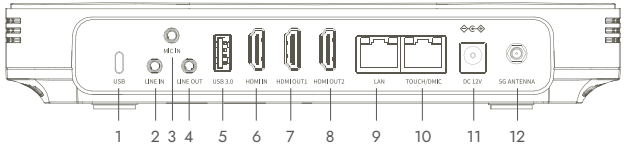
8 — HDMI OUT2 Interface

9 — LAN Interface(Reserved)

10 — TOUCH/DMIC Interface

11 — DC 12V Interface

12 — 5G Antenna Interface



## PTZ CAMERAS

# 4K Dual-Lens Presentation PTZ Camera BYOM Bundle

### RC941 Kit



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 4K video conference PTZ camera RC941. 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.



## FEATURES

### ▼ SINGLE-CABLE BYOM

Plug and play. One cable links BY42 to RC941. One USB-C supporting PD links BY42 to the laptop. Just one click to start screen sharing.

### ▼ 4K UHD SCREEN-SHARING

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

### ▼ 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 other popular Rooms. Compatible with Windows, MacOS system.

### ▼ POWERFUL AI FEATURES

Built-in AI algorithms, it supports group framing, presenter track with gesture control. It adapts to various meeting scenarios, focusing on main speakers and continuously captures close-up shots automatically.

### ▼ DUAL ULTRA-HD COORDINATED CAMERAS

Equipped with a 12x Optical Zoom PTZ Camera and a 95° Ultra Wide Angle Fixed-Focus Camera, it captures close-up shots and performs AI detection across the entire scene simultaneously. Supporting split-screen display of close-up and panoramic views, it offers richer perspectives of the venue, clearer and more detailed portraits, and more precise AI recognition capabilities.

### ▼ ULTIMATE ULTRA-HD IMAGE QUALITY

The PTZ camera features a new generation 1/1.8-inch UHD CMOS sensor with a maximum resolution of 8.42 megapixels. It supports smooth 4K@60fps video output. The high-quality optical lens provides a 80° horizontal angle of view, covering a wide area of the meeting room. It offers lossless optical zoom and flexible focus, delivering unparalleled ultra-high-definition image quality.

### ▼ COMPREHENSIVE AUDIO INTEGRATION

The system supports multiple audio interfaces, including digital microphones, analog audio, USB audio, HDMI audio, and network audio. It allows the connection of microphones, speakers, audio mixers, and other professional audio equipment, offering extensive external audio expansion. This enables seamless audio and video integration, supporting the BYOM mode without needing additional devices.

## RC941 SPECIFICATIONS

### ▼ CLOSE-UP CAMERA

Video Resolution	4KP60/50, 1080P60/50
Sensor	1/1.8", CMOS, 8.42 Megapixels
Scanning Mode	Progressive
Lens	f4.81mm ~f57.8mm, F1.8 ~ F3.6
Optical Zoom	12x
Digital Zoom	5x
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥38dB
Horizontal Angle of View	80° ~ 7.5°
Vertical Angle of View	50° ~ 4.3°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +30°
Pan Speed Range	0.86°~46.64°/S
Tilt Speed Range	0.35°~14.53°/S
H & V Flip	Support
Image Freeze	Support
Number of Preset	255

### ▼ I/O INTERFACES

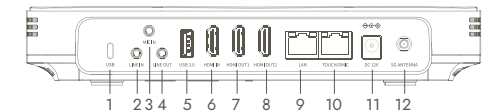
USB Interface	1 x USB 3.0, Type-C; 1 x USB 3.0, Type-A
Audio Input Interface	Built-in dual MIC
HDMI Input Interface	1 x HDMI 2.1
HDMI Output Interface	2 x HDMI 2.0
Network Interface	1 x RJ45; 1 x PSE(802.3at); WIFI5
Audio Interface	1 x Line In, 1 x Line Out; 1 x MIC In, 48V phantom power; 1 x DMIC; 1 x USB
Power Jack	JEITA type (DC IN 12V)

### ▼ PANORAMIC CAMERA

Sensor	1/2.7", CMOS, 8.30 Megapixels
Scanning Mode	Progressive
Lens	f3.0 ±5%
Digital Zoom	5x
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥38dB
Diagonal FOV	95°
Horizontal Angle of View	86°
Vertical Angle of View	54°
H & V Flip	Support

### ▼ USB FEATURES

Operating System	Windows 7, 8, 10, 11, Mac OS X, Linux, Android
Color System/Compression	YUY2 / H.264/MJPEG/H.265
Video Format	YUY2 (Isochronous): Max 1080P60; MJPEG: Max 2160P60; H.264: Max 2160P60; H.265 HEVC: Max 2160P60;
USB Audio	Support
USB Video Communication Protocol	UVC 1.1, UVC 1.0
UVC PTZ Control	Support



- |                          |                             |
|--------------------------|-----------------------------|
| 1 — USB TYPE-C Interface | 7 — HDMI OUT1 Interface     |
| 2 — LINE IN Interface    | 8 — HDMI OUT2 Interface     |
| 3 — MIC IN Interface     | 9 — LAN Interface(Reserved) |
| 4 — LINE OUT Interface   | 10 — TOUCH/DMIC Interface   |
| 5 — USB 3.0 Interface    | 11 — DC 12V Interface       |
| 6 — HDMI IN Interface    | 12 — 5G Antenna Interface   |

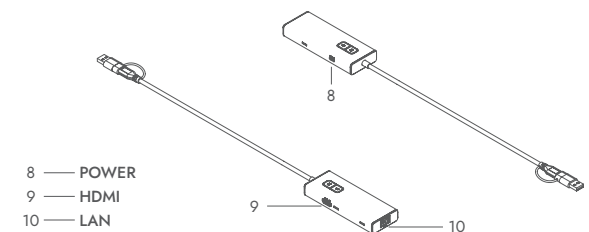
## BY42 SPECIFICATIONS

### ▼ 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 x USB 2.0 Type-C
Ethernet	1 x RJ45
HDMI	1 x HDMI 2.0



- |           |
|-----------|
| 8 — POWER |
| 9 — HDMI  |
| 10 — LAN  |

# 4K Video Conferencing PTZ Camera

## RC841UX



RC841UX is an UHD video conferencing camera designed specifically for medium to large-sized conference rooms. It features the latest generation 1/2.8-inch 4K CMOS sensor from SONY, enabling a resolution of 3840x2160 for incredibly high image quality. It delivers a more detailed and lifelike video conferencing experience.

## FEATURES

### ▼ 4K VIDEO QUALITY

Equipped with the new generation 4K CMOS sensor from SONY with a maximum pixel count of 8 million, this camera can achieve ultra-high resolution video images of 4K (3840x2160), meeting the high image quality requirements of various conference rooms.

### ▼ 12X OPTICAL ZOOM

Equipped with an 80.8° wide-angle lens, this camera features 12x optical zoom and 16x digital zoom, enabling clear capture of details both near and far in the conference room with no distortion at the edges of the image.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

AI technology upgrade, equipped with advanced AI technologies such as presenter tracking, group framing, zone tracking. Equipped with in-house-developed ReID technology, the device identifies the speaker's figure, appearance, and outfit. As the speaker moves within the room, the camera automatically tracks them, ensuring the target remains centered. Even if there are interferences or the speaker exits the frame, the camera swiftly recaptures and tracks them upon reentry.

### ▼ COMPATIBLE WITH POPULAR CONFERENCE SOFTWARE

This camera is compatible with popular video conferencing software systems, including Microsoft Teams, Zoom, Cisco WebEx and more, making it easy to connect and start a meeting.

### ▼ SUPPORTS NDI®|HX2

Supports the network video transmission technology NDI®|HX2, featuring plug-and-play, low latency, and easy deployment. It supports simultaneous transmission of audio, video, and control signals. (Optional)

### ▼ SILENT MECHANICAL PTZ

Equipped with a silent mechanical PTZ, this camera has a ±170° horizontal rotation range and a -30°~+90° vertical rotation range, fully covering the entire conference room space and leaving no blind spots, even in corner positions.

### ▼ THREE-WAY HD VIDEO SIGNAL OUTPUT

Equipped with USB 3.0, HDMI 2.0, and LAN interfaces, it can output three-way HD video signals simultaneously, bringing more connection options and creating a high-quality conference experience for all participants.

## SPECIFICATIONS

### ▼ CAMERA

Video Resolution	HDMI: 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94
Sensor	1/2.8", CMOS, 8.46 Megapixels
Scanning Mode	Progressive
Lens	12x, f=3.47mm ~ 41.65mm, F1.84 ~ F3.72
Digital Zoom	16x
Minimum Illuminance	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	80.8° ~ 7.5°
Vertical Angle of View	49.9° ~ 4.3°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

### ▼ USB FEATURES

Operating System	Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color System / Compression	YUY2 / MJPEG / H.264
Video Format	YUY2: Max 1080P30; MJPEG: Max 4K30; H.264 : Max 4K30;
Frame Rate	1fps~30fps
USB Audio	Support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

### ▼ IPC FEATURES

Video Compression	H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576 etc
Sub Stream Resolution	720×480, 320×240 etc
Video Bit Rate	Main Stream: 32Kbps~51200kbps Sub Stream: 32kbps~20480kbps
Bit Rate Type	CBR, VBR
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps
Support Protocols	NDI HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, GB/T 28181, Multicast, etc.

### ▼ I/O INTERFACES

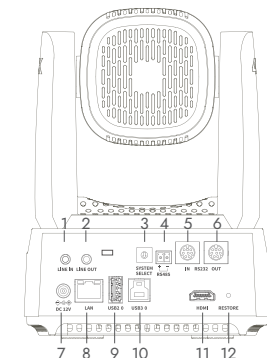
USB Interface	1 × USB 3.0, Type-B, device interface, support Video& Audio 1 × USB 2.0, Type-A, host interface
HDMI Output Interface	1 × HDMI 2.0
Network Interface	1 × RJ45: 10M/100M/1000M Adaptive Ethernet
Audio Interface	1 × Line In, 3.5mm Jack 1 × Line Out, 3.5mm Jack
Communication Interface	1 × RS485: 2pin phoenix port, Max Distance 1200m, Protocol: VISCA/Pelco-D/Pelco-P 1 × RS232 In: 8pin Mini DIN, Max Distance 30m, Protocol: VISCA/Pelco-D/Pelco-P 1 × RS232 Out: 8pin Mini DIN, Max Distance 30m, Protocol: VISCA
Power Interface	JEITA type (DC IN 12V)

### ▼ GENERAL SPECIFICATION

Input Voltage	DC 12V / PoE+ (802.3at)
Input Current	2A (Max)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	18W (Max)
Dimension (W × D × H)	142.5 × 151.9 × 188.3mm
Weight	1.56kg

## INTERFACE

- |                             |                            |
|-----------------------------|----------------------------|
| 1 — LINE IN Interface       | 7 — DC 12V Power Interface |
| 2 — LINE OUT Interface      | 8 — LAN Interface          |
| 3 — SYSTEM SELECT Interface | 9 — USB 2.0 Interface      |
| 4 — RS485 Interface         | 10 — USB 3.0 Interface     |
| 5 — RS232 IN Interface      | 11 — HDMI Interface        |
| 6 — RS232 OUT Interface     | 12 — RESTORE Interface     |





# 1080P Video Conferencing PTZ Camera

## RC821U



A Full HD video conferencing camera designed specifically for medium to large conference scenarios, featuring a brand-new generation of HD CMOS high-quality sensors that deliver 1920x1080 resolution image quality and output frame rates of up to 60fps, providing a more refined and smooth video conferencing experience.

zoom  
Certified



## FEATURES

### ▼ HD IMAGE QUALITY

Equipped with HD CMOS image sensor, it can deliver high-quality images with a maximum resolution of 1920x1080. At 1080P, the output frame rate can reach up to 60fps, providing clear and smooth image quality.

### ▼ 12X OPTICAL ZOOM

Featuring a 72.5° wide-angle lens and 12x optical zoom, it can capture clear images even from a distance. Equipped with a mechanical gimbal, it can achieve a ±170° horizontal rotation and a -30°~+90° vertical rotation, ensuring no blind spots in the conference room.

### ▼ EASY WIRING

Supporting PoE power supply, only one network cable is needed to connect for control, power supply, video, and audio, making wiring simple and convenient.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

Incorporating built-in video AI algorithms, it can identify the positions of meeting participants, automatically adjusting the camera angle for the best composition. You can also choose a target for filming, and the camera will automatically track and follow the subject as they move.

### ▼ COMPATIBLE WITH POPULAR CONFERENCE SOFTWARE

The camera is compatible with popular video conferencing software, including Microsoft Teams, Zoom, Cisco, WebEx and more. Simply connect the camera and start the meeting.

### ▼ FLEXIBLE INSTALLATION

The camera supports various installation methods such as hanging, wall mounting, mounting, desktop installation, and tripod installation, providing flexibility to meet the needs of different conference settings.

## SPECIFICATIONS

### ▼ CAMERA

Video Resolution	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8", CMOS, 2.07 Megapixels
Scanning Mode	Progressive
Lens	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	2.7° ~ 35.7°/s
Tilt Speed Range	2.7° ~ 31.5°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

### ▼ I/O INTERFACES

USB Interface	1 x USB 3.0 , Type-C Jack
HDMI Output Interface	1 x HDMI 1.3a
Network Interface	1 x RJ45: 10M/100M Adaptive Ethernet
Audio Interface	1 x Line In, 3.5mm Audio Interface
Communication Interface	1 x RS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V) / PoE

### ▼ IPC FEATURES

Video Compression	H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Sub Stream Resolution	1280x720, 1024x576, 720x480, 720x408, 640x360, 480x272, 320x240, 320x180
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc

### ▼ USB FEATURES

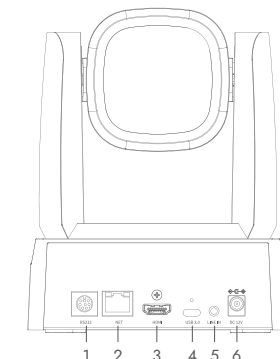
Operating System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	YUY2: Max 1080P60; H.264 AVC: Max 1080P60; MJPEG: Max 1080P60
USB Audio	Support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

### ▼ GENERAL SPECIFICATION

Input Voltage	DC 12V / PoE (802.3af)
Input Current	12V 1.0A (Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W (Max)
MTBF	>30000H
Dimension (W x D x H)	142 x 152 x 177mm
Weight	1.45kg

## INTERFACE

- 1 — RS232 Interface
- 2 — NET Interface
- 3 — HDMI Interface
- 4 — USB3.0 Interface
- 5 — LINE IN Interface
- 6 — DC 12V Power Jack



# 1080P Video Conferencing PTZ Camera

## RC20



1080P



Dual-Stream

10x  
Optical ZoomMechanical  
PTZFull-Function  
USB

RC20 is a video conferencing camera designed for high cost-effectiveness needs of enterprises. It features a new generation 1/2.8" HD CMOS sensor and delivers excellent image quality at 1080P resolution. With its 10x optical zoom capability, it presents clear details of the meeting room.



## FEATURES

### ▼ 1080P FULL HD

Equipped with a high-quality HD CMOS sensor with 2.07 Megapixels, it provides a maximum resolution of 1920x1080, delivering Full HD image quality.

### ▼ 10X OPTICAL ZOOM

The lens supports 10x optical zoom with a focal length of f=4.7mm ~ 46.3mm, presenting clear close-up views of the meeting room.

### ▼ SILENT MECHANICAL PTZ

Built-in self-developed motorized pan-tilt, the camera can rotate horizontally up to  $\pm 170^\circ$  with a rotation speed of  $2.7^\circ \sim 47^\circ /s$  and vertically from  $-30^\circ$  to  $90^\circ$  with a rotation speed of  $2.7^\circ \sim 30^\circ /s$ .

### ▼ SUPPORTS H.264 SLICE/ H.264 SVC ENCODING

It supports H.264 Slice and SVC encoding modes for outputting H.264 stream, which is suitable for high-end USB conference video applications.

### ▼ DUAL-STREAM

It supports dual-stream output (YUY2, MJPEG, H.264) at the same time, reducing the encoding and decoding pressure on the host.

### ▼ REMOTE CONTROL

The camera supports RS232 serial port for remote control.

### ▼ FLEXIBLE INSTALLATION

It supports horizontal and vertical flipping and can be installed in different ways, such as normal mounting, suspension, or ceiling mounting, depending on the actual needs of the meeting room.

## SPECIFICATIONS

### ▼ CAMERA

Video Resolution	1080P, 720P, 540P, 480P, 360P, 240P
Sensor	1/2.8", CMOS, 2.07 Megapixels
Scanning Mode	Progressive
Lens	10x, f4.7mm ~ 46.3mm, F2.8
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F2.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Adjustable color temperature
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	$\geq 55$ dB
Horizontal Angle of View	$58.5^\circ \sim 6.5^\circ$
Vertical Angle of View	$35.1^\circ \sim 3.6^\circ$
Horizontal Rotation Range	$\pm 170^\circ$
Vertical Rotation Range	$-30^\circ \sim +90^\circ$
Pan Speed Range	$2.7^\circ \sim 47^\circ /s$
Tilt Speed Range	$2.7^\circ \sim 30^\circ /s$
H & V Flip	Support
Number of Preset	255
Preset Accuracy	$0.1^\circ$

### ▼ I/O INTERFACES

USB	1 x USB 2.0, Type-B Jack
Communication Interface	1 x RS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/ Pelco-D/Pelco-P
Power Jack	JEITA Type (DC IN 12V)

### ▼ USB FEATURES

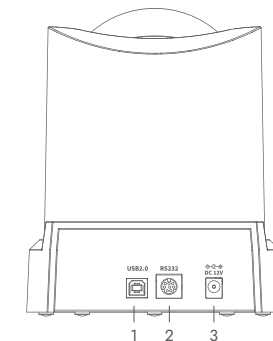
Operating System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	H.264 AVC: Max 1080P30; H.264 SVC: Max 1080P30; MJPEG: Max 1080P30
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

### ▼ GENERAL SPECIFICATION

Input Voltage	DC 12V
Input Current	1A (Max)
Operating Temperature	$0^\circ\text{C} \sim 40^\circ\text{C}$
Storage Temperature	$-40^\circ\text{C} \sim 60^\circ\text{C}$
Power Consumption	12W (Max)
MTBF	>30000H
Dimension (W x D x H)	141.5 x 151.1 x 170.2mm
Weight	1.153kg

## INTERFACE

- 1 — USB 2.0 Interface
- 2 — RS232 Interface
- 3 — DC 12V Power Jack



# 1080P Video Conferencing PTZ Camera

## RC310



1080P



TOF

3x  
Optical ZoomMechanical  
PTZPresenter  
Tracking

RC310 is a highly cost-effective video conferencing camera designed specifically for small enterprise meeting scenarios. With a compact body the size of a palm, it features a 1/2.8" high-quality CMOS sensor that delivers 1080P HD image quality. It is equipped with various AI video algorithms, providing an outstanding video communication experience.



## FEATURES

### ▼ USB PLUG-AND-PLAY

With just a single USB cable, it enables audio and video transmission as well as camera power supply, offering a hassle-free deployment experience.

### ▼ 1080P + 3X OPTICAL ZOOM

Using a new generation HD CMOS sensor, it delivers a Full HD 1080P video experience, combined with 3X optical zoom, ensuring clear images for both panoramic and close-up shots.

### ▼ WIDE FIELD OF VIEW

It features a 90° ultra-wide-angle lens that supports ±170° horizontal and -30° to +90° vertical rotation, capturing the entire meeting space without blind spots.

### ▼ 3M PICKUP DISTANCE

It has two built-in microphones with a pickup distance of up to 3m, eliminating the need for additional audio pickup devices and enabling simultaneous audio and video recording.

### ▼ TOF FAST AUTOFOCUS

Equipped with Time-of-Flight (TOF) laser focusing technology, it achieves rapid autofocus, keeping the subject in focus at all times, ensuring clear and stable image quality.

### ▼ PRESENTER TRACKING WITH AI TECHNOLOGY

Built-in video AI algorithms can recognize the positions of meeting participants and automatically adjust the camera's field of view to capture the best composition. In single-person shooting mode, the camera automatically tracks and focuses on the moving target.

### ▼ VERSATILE INSTALLATION

It supports both desktop installation and tripod installation, meeting the diverse installation needs of meetings and live streaming scenarios.

## SPECIFICATIONS

### ▼ CAMERA

Sensor	1/2.9", CMOS, 2.07 Megapixels
Scanning Mode	Progressive
Lens	3x, f3.41mm ~ 10.33mm, F1.66 ~ F3.03
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Adjustable color temperature
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	90° ~ 30.7°
Vertical Angle of View	52° ~ 18.4°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	2.7° ~ 35.7°/s
Tilt Speed Range	2.7° ~ 31.5°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

### ▼ GENERAL SPECIFICATION

Input Voltage	DC 12V / USB 5V
Input Current	12V 1.0A (max.)/ 5V 1.5A (max.)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W(Max)
MTBF	>30000H
Dimension (W × D × H)	107.9 × 114.3 × 136.5mm
Weight	0.5kg

### ▼ USB FEATURES

Operating System	Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color System / Compression	YUY2 / MJPEG
Video Format	YUY2 (Isosynchronous): Max 640x480P30 MJPEG: Max 1920x1080P30
USB Audio	Optional
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

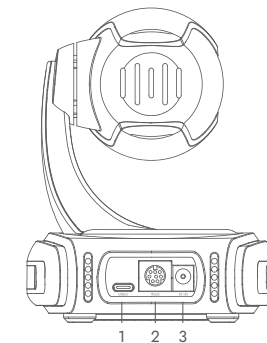


### ▼ I/O INTERFACES

USB	1 x USB 2.0, Type-C Jack
Audio Input	Built-in dual mic
Communication Interface	1 x RS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA (DC IN 12V) / USB Type-C (USB 5V)

## INTERFACE

- 1 — USB 2.0 Interface
- 2 — RS232 Interface
- 3 — DC 12V Power Jack



# All-in-One USB Webcam

## RC08P



RC08 is a mini USB audio-video all-in-one device designed specifically for small meeting rooms and personal offices. It integrates a HD camera, omnidirectional microphone and full-range speaker in a three-in-one design, greatly simplifying the wiring process. With USB connectivity, it can be used instantly without any configuration, making video conferencing simple and enjoyable.

## FEATURES

### ▼ INTEGRATED BIONIC DESIGN

The integrated design combines a HD camera, highly sensitive omnidirectional microphone and full-range speaker in one device, allowing for easy plug-and-play setup with simple wiring. The unique bionic design provides an excellent audiovisual conference experience.

### ▼ FULL HD WIDE-ANGLE LENS

Equipped with a high-quality HD CMOS sensor, it offers a maximum output of 1080@30fps/25fps image encoding. The horizontal field of view can reach 90°, ensuring distortion-free images at the edges.

### ▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

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.

### ▼ AUDIO 3A ALGORITHM

It features a built-in Audio 3A algorithm (AEC/AGC/ANS) for full-duplex conversation. It automatically balances volume levels during audio capture while effectively suppressing noise, resulting in clear and balanced sound quality.

### ▼ 360° OMNIDIRECTIONAL PICKUP

With a digital microphone, it achieves 360° pickup sensitivity of -30±2dB. The volume automatic gain control algorithm ensures balanced and clear audio pickup from any position.

### ▼ HARMAN TUNED SPEAKER

The device uses a Harman-tuned speaker with a ducted sound chamber, delivering excellent playback performance. The high frequencies are clear and penetrating, while the low frequencies are natural and powerful, providing full and clear voice reproduction.

### ▼ ELECTRONIC PAN-TILT

The device incorporates an electronic pan-tilt mechanism, eliminating the need for mechanical rotating devices. It offers precise rotation, noise-free operation, and enhanced durability. It also supports 4X digital zoom.

### ▼ PRIVACY COVER DESIGN

The camera is equipped with an integrated sliding privacy cover that can be closed at any time to protect the privacy of participants.

### ▼ EASY INSTALLATION

It can be easily installed using a damping rotating axis bracket, compatible with almost 100% of the monitors available in the market. The installation process is simple, stable, and reliable.

## SPECIFICATIONS

### ▼ CAMERA

Sensor	1/2.8", CMOS, 2.07 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focal length: f=2.8mm, Horizontal field Angle: 90°
AF	Support
Minimal Illumination	0.5 Lux @ (F2.0, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual, VAR
Camera Bracket	Standard equipped damped rotating bracket
Physical Privacy Security	Support
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Digital Zoom	4X

### ▼ AUDIO FEATURE

Audio Algorithm	AEC / AGC / ANS
Full-range Speaker	82dB SPL at 0.5m
Microphone	360° omnidirectional microphone, Sensitivity : -30±2dB

### ▼ GENERAL SPECIFICATION

Power	5V (USB-powered)
Input Current	0.5A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	2.5W
Dimension (W × D × H)	121 × 32 × 31mm(Non -bracket)
Weight	0.2kg

### ▼ USB FEATURES

Operating System	Windows® 7 (only 1080P and below supported), Windows 8.1, Windows 10 or higher macOS™ 10.10 Or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux (Support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB memory or higher USB 2.0
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	1080P30/25, 720P30/25, 960x540P30/25, 640x360P30/25
USB Video Communication Protocol	UVC 1.1
UAC	Support
UVC PTZ Control	Support (ePTZ)

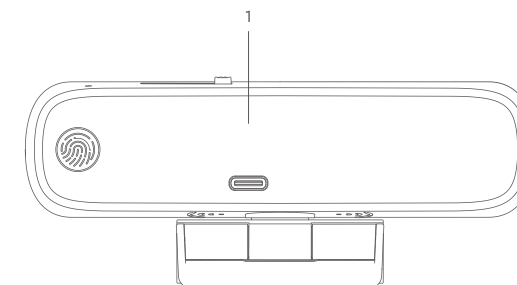
### ▼ I/O INTERFACES

USB	1 x USB 2.0, Type-C
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## INTERFACE

1 — USB Interface





# 4K USB Webcam

## RC16



4K 30fps



110°  
Wide Angle



Group Framing  
With AI  
Technology



Built-in Mic

RC16 is a high-performance USB webcam designed specifically for small to medium-sized meeting rooms and personal office environments. It is equipped with a next-generation UHD CMOS image sensor, providing 4K UHD resolution images. In addition, it features AI framing and audio processing capabilities, delivering an exceptional conference audiovisual experience for users.



## FEATURES

- ▼ **4K UHD**

It utilizes a 1/2.7" UHD CMOS sensor with 8.29 Megapixels. It supports a maximum 4K@30fps image encoding output, delivering higher picture resolution and rich details.
- ▼ **110° WIDE ANGLE**

Equipped with a 110° ultra-wide-angle lens, it captures a wider range and minimizes image distortion. With Group framing technology, it can automatically detect people within the field of view and adjust the picture angle accordingly.
- ▼ **GROUP FRAMING WITH AI TECHNOLOGY**

The camera integrates AI algorithms and facial recognition technology, automatically identifying changes in seating arrangement in the meeting room and adjusting the camera's field of view for optimal framing. It can also track new participants as they enter the frame.

- ▼ **6M CLEAR AUDIO PICKUP**

Featuring a built-in beamforming microphone array and unique noise suppression and automatic gain algorithms, it ensures clear audio pickup within a range of 6m, enhancing speech clarity.
- ▼ **FULL-FEATURED USB 3.0**

Supporting a full-featured USB 3.0 interface, it enables integrated power supply, video and audio transmission. It can also support simultaneous input from two USB video sources<sup>1</sup> and one audio source.
- ▼ **ONE-CLICK CONVENIENCE**

With the exquisite infrared remote control and exclusive software, users can easily activate features such as automatic framing and person tracking with a single click. It also allows convenient settings for presets, electronic pan-tilt-zoom (ePTZ), image parameters, providing a user-friendly operating experience.

Remark:  
1. This feature is optional.

## SPECIFICATIONS

▼ CAMERA	
Sensor	1/2.7", CMOS, 8.29 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focal length: f=2.2mm, Wide Angle:110°
Minimum Illuminance	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Camera Bracket	Standard equipped damped rotating bracket

▼ I/O INTERFACES	
USB	1 x USB 3.0; Type-C
Infrared Remote Control	Support

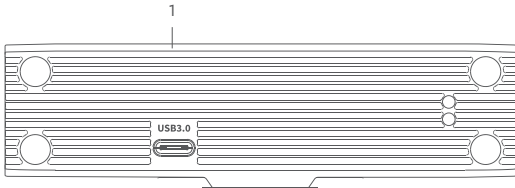
▼ GENERAL SPECIFICATION	
Input Voltage	5V (USB-powered)
Input Current	0.6A (MAX)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	3.0W (MAX)
Dimension (W x D x H)	118 x 37.2 x 34.5mm (stent-free)
Weight	0.2kg

▼ USB FEATURES	
Operating System	Windows® 7 (only 1080P and below support), Windows 8.1, Windows 10 or higher macOS™ 10.10 Or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux (Support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB memory or higher USB 2.0 (4K need USB3.0)
Color System / Compression	H.264 / MJPEG / YUY2
Video Format	4KP30/25, 1080P30/25, 720P30/25, 960x540P30/25, 640x360P30/25,etc.
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support (EPTZ)



## INTERFACE

1 — USB3.0 Interface



# 4K Business Webcam

## RC17



RC17 is a HD commercial camera designed specifically for small to medium-sized meeting rooms in enterprises. RC17 supports 120° ultra-wide-angle lens, so it can get consistently clear views. Both models feature a 4K CMOS sensor that achieves a resolution of 3840x2160, delivering a more detailed and realistic video conferencing experience.



## FEATURES

### ▼ 4K VIDEO QUALITY

It utilizes a 1/2.5" 4K CMOS sensor with 8.29 Megapixels. It supports maximum 4K@30fps image encoding output and is also compatible with lower resolutions such as 1080P and 720P.

### ▼ WIDE FIELD OF VIEW

Equipped with a 120° ultra-wide-angle lens, the viewing range is increased by 50%, easily covering full conference scenarios, or live streaming panoramic views, bringing you a broad and comprehensive visual capture experience.

### ▼ AI GROUP FRAMING

It incorporates built-in video AI algorithms that can recognize the positions of participants and automatically adjust the camera angle for the best framing.

### ▼ SPEAKER FRAMING

With built-in intelligent analysis algorithms, it can identify the speaker's position, intelligently link with the EPTZ function and automatically track the speaker, ensuring that the speaker remains clear in the frame.

### ▼ AI PRESENTER TRACKING

By utilizing AI technology to extract target features, it can achieve smooth presenter tracking regardless of the direction the person is facing. It is suitable for applications such as automatic tracking of presenters and provides flexibility in selecting the tracking target.

### ▼ BUILT-IN MICROPHONE<sup>1</sup>

An optional built-in digital microphone array is available, equipped with exclusive noise suppression algorithms, enabling clear omnidirectional audio pickup within a range of 6m.

Remark: 1. This feature is optional.

## SPECIFICATIONS

### ▼ CAMERA

Sensor	1/2.5", CMOS, 8.29 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focal length : f=2.8mm, Horizontal field Angle: 120°
Minimum Illuminance	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Camera Bracket	Standard equipped damped rotating bracket

### ▼ USB FEATURES

Operating System	Windows® 7 (only 1080P and below support) Windows 8, Windows 10, Windows 11, MacOS X Above Linux 2.4.6 Android (include UVC-related driver programs)
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	4KP30/25; 1080P/30/25; 720P/30/25; 960x540P/30/25; 640x360P/30/25
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support (EPTZ)

### ▼ I/O INTERFACES

USB	1 x USB 3.0; Type-B
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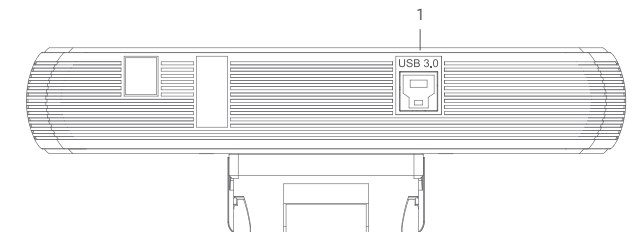
### ▼ GENERAL SPECIFICATION

Input Voltage	5V (USB-powered)
Input Current	0.6A
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	3W
Dimension (W × D × H)	194 × 42 × 34mm (Stent-free)
Weight	0.5kg



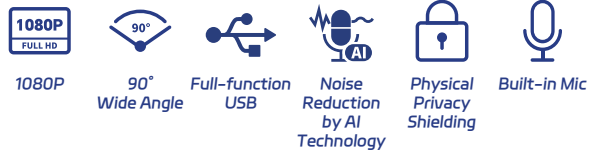
## INTERFACE

1 — USB 3.0 Interface



# 1080P USB Webcam

## RC19



RC19 is a high-performance USB webcam specifically designed for small to medium-sized meeting rooms and personal office environments. It integrates a 1080P HD camera and a digital array microphone, combining audio and video experience in one device. Simply connect it to a large screen, computer, or other peripherals via USB to start a meeting. The unique sliding privacy cover allows you to close the lens at any time, ensuring participant privacy.



## FEATURES

### ▼ FULL HD IMAGE

It uses a 2.07 Megapixels high-quality CMOS image sensor, supporting a maximum 1080@30fps/25fps image encoding output. It is also backward compatible with resolutions such as 720p.

### ▼ DISTORTION-FREE WIDE ANGLE

With a wide field of view, the maximum horizontal field of view can reach 90°, capturing a broader range without distortion. The camera can be equipped with auto-focus (AF) functionality.

### ▼ ELECTRONIC PTZ

It achieves precise and noiseless electronic PTZ without the need for mechanical rotating devices, ensuring reliability and durability.

### ▼ 6M CLEAR AUDIO PICKUP

Featuring a built-in microphone array, it enables 360° omnidirectional audio pickup with a pickup range of up to 6 meters. It incorporates Rocware®'s unique noise suppression and Automatic Gain Control (AGC) algorithms, ensuring clear and natural voice communication.

### ▼ FULL-FEATURED USB

Supporting a full-featured USB 2.0 interface, a single USB cable provides power, control, audio and video transmission, making the wiring process simple.

### ▼ PRIVACY COVER DESIGN

The camera is equipped with an integrated sliding privacy cover, allowing you to close the lens at any time to protect the privacy of participants.

## SPECIFICATIONS

### ▼ CAMERA

Sensor	1/2.8", CMOS, 2.07 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focal length: f=2.8mm, Wide Angle: 90°
Minimum Illuminance	0.5Lux @ (F2.2, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Camera Bracket	Standard equipped damped rotating bracket
Physical Privacy Shielding	Support
Digital Zoom	4X

### ▼ I/O INTERFACES

USB	1 x USB 2.0; Type-A
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### ▼ GENERAL SPECIFICATION

Input Voltage	5V (USB-powered)
Input Current	0.2A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	1W
Dimension (W x D x H)	103 x 27 x 30mm
Weight	153g

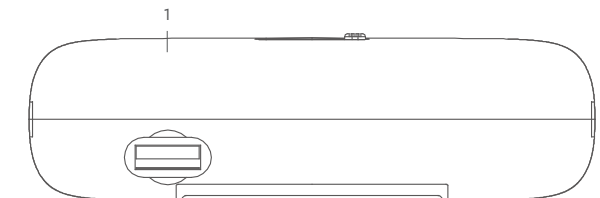
### ▼ USB FEATURES

Operating System	Windows® 7 (only 1080P and below support), Windows 8.1, Windows 10 or higher macOS™ 10.10 Or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux (Support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB memory or higher USB 2.0
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	1080P30/25, 720P30/25, 960x540P30/25, 640x360P30/25
USB Video Communication Protocol	UVC 1.1
UAC	Support
UVC PTZ Control	Support (EPTZ)



## INTERFACE

1 — USB Interface





## TRACKING CAMERA

# 4K Dual-lens Smart Tracking Educational Camera(For Student/Teacher)

## RC051



The RC051 is designed for intelligent teaching environments, integrating panoramic and close-up dual lenses for up to 4K UHD output. It captures interactive teaching scenes with built-in AI features like teaching tracking, facial recognition, and behavior analysis, offering a more dynamic intelligent teaching experience.

## FEATURES

### ▼ DUAL-LENS

Featuring a unified design with both panoramic and close-up lenses, the panoramic lens boasts an effective pixel count of 4.93 Megapixels, while the close-up lens reaches an impressive 8.29 Megapixels. This design ensures comprehensive coverage of the entire classroom while delivering high-definition close-up images.

### ▼ HIGH QUALITY IMAGES

The RC051 includes both teacher and student units. The teacher's panoramic camera uses a 1/2.7-inch HD CMOS sensor, while the close-up camera features a 1/2.7-inch 4K high-quality CMOS sensor for high quality images. The teacher's panoramic camera has a 43° field of view, and the close-up camera has a 25° field of view. The student's panoramic camera provides a 110° field of view, with the close-up camera offering a 43° field of view for clear tight shots.

### ▼ MINI PTZ

The camera is equipped with a mini PTZ that can horizontally rotate ±40°, expanding the shooting range significantly. It also supports EPTZ, ensuring clear images. The seamless integration of PTZ and EPTZ allows for more precise framing, capturing all the important details in the class.

### ▼ INTELLIGENT TRACKING

The teacher's camera includes advanced algorithms for head, facial, and body recognition and tracking. It can track and capture the teacher without any additional positioning camera or device, ensuring no missed interactive details during teaching.

### ▼ AI SMART DIRECTOR

The camera features built-in AI director algorithms, recognizing real teaching scenarios and automatically switching between teacher panoramic, close-up, and board close-up views, as well as student panoramic and close-up views. It also supports external directing consoles, outputting multi-camera streams via network or USB interfaces to meet the needs of external directing scenarios.

### ▼ AI BEHAVIOR ANALYSIS

Equipped with AI algorithms for facial recognition and behavior analysis, the camera automatically detects the number of students, simplifying school attendance management. These intelligent functions streamline teaching administration, improving efficiency and enhancing the educational experience.

### ▼ MULTIPLE OUTPUT INTERFACES

Supporting various video output interfaces like PoE and USB 3.0, it easily connects to recording and broadcasting hosts, large-screen OPS, and other devices, expanding application scenarios effectively.

Remark: 1. This feature is optional.

## SPECIFICATIONS

### ▼ CAMERA SPEC OF CLOSE-UP CAMERA

Sensor	1/2.7", CMOS, Effective pixel:8.29 Megapixels
Scanning Mode	Progressive
Type of Lens Mount	M12
Student Close-up Lens	f=7.37mm, Horizontal FOV: 43°
Teacher Close-up Lens	f=13.1mm, Horizontal FOV: 25°
Digital Zoom	2X
Minimum Illumination	0.5Lux
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D&3D Digital Noise Reduction
Backlight Compensation	Support
Pan Angle	±40°
Tilt Angle	+5° ~ -30°
Maximum Rotation Speed	Student Camera: Pan Speed 60°/s,Tilt Speed 30°/s Teacher Camera: Pan Speed 30°/s,Tilt Speed 30°/s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.5°

### ▼ CAMERA SPEC OF PANORAMIC CAMERA

Sensor	1/2.7", CMOS, Effective pixel:4.93 Megapixels
Scanning Mode	Progressive
Type of Lens Mount	M12
Student Panoramic lens	f=2.2mm, Horizontal FOV: 110°
Teacher Panoramic lens	f=7.37mm, Horizontal FOV: 43°
Minimum Illumination	0.5Lux
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D&3D Digital Noise Reduction
Backlight Compensation	Support
Tilt Angle	+0° ~ -24°
Image Flip	Support
Image Freeze	Support

### ▼ I/O INTERFACES

USB Interface	1 x USB 3.0; Type-C
Network Interface	1 x RJ45: 10M / 100M adaptive Ethernet; PoE(802.3af), Support NDI <sup>1</sup>
Audio Interface	1 x LINE In: 3.5mm; 1 x LINE Out: 3.5mm
Power Interface	DC005 (DC 12V)
Reset Button	RESET
Infrared Interface <sup>1</sup>	Support
Indicator Light	POWER , STANDBY

### ▼ USB SPEC

Operating System Supported	Windows® 7 ( Only support 1080P and below ), Windows 8.1 and above version; macOS™ 10.10 and above version; Google™ Chromebook™ Version 29.0.1547.70 and above version; Linux ( Need to support UVC)
Hardware Requirements	2.4 GHz Intel® Core 2 DUO processor or higher; 2 GB memory or higher; USB 3.0 or USB 2.0 interface
Color System/Compression	YUY2/MJPEG/H.264
Video Format	Maximum 4K and other different frame rates and resolution video formats
USB Video Communication Protocol	UVC 1.1
USB Audio	The maximum 48K sampling rate, supports UAC1.0
UVC PTZ Control	Support

### ▼ NETWORK SPEC

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream, Third Stream, Fourth Stream
First Stream Resolution	3840x2160,1920x1080, 1280X720, etc.
Second Stream Resolution	2880x1620, 1920x1080, 1280X720, etc.
Third Stream Resolution	1920X1080,1280X720,1024x576, etc.
Fourth Stream Resolution	1920x1080, 1280x720,1024x576, etc.
Video Bit Rate	32Kbps ~ 16384Kbps
Bit Rate Type	VBR, CBR
Frame Rate	25/30fps
Audio Compression	AAC/G.711A
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support Protocols	TCP/IP, HTTP, HTTPS, NDI, SRT, RTSP, RTMP, Onvif, DHCP, GB28181, Multicast, etc.

### ▼ AUDIO

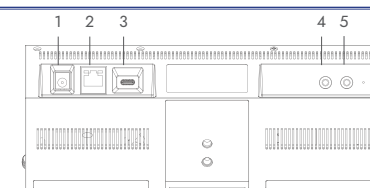
Simulation Audio Input	1 x LINE In
Simulation Audio Output	1 x LINE Out
Digital Audio Interface	1 x USB audio input output 1 x network audio input output, supports 1588-based audio clock synchronization

### ▼ GENERIC SPEC

Input Voltage	DC 12V / PoE (802.3af)
Input Current	1A (Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W (Max)
Dimension (W x D x H)	242 x 86 x 70mm
Net Weight	0.62kg
No Failure Time	30000h

## INTERFACE

- 1 — DC 12V
- 2 — LAN
- 3 — USB
- 4 — LINE IN
- 5 — LINE OUT



# Cascadable Desktop Array Microphone

## RM702A

-   
Omnidirectional Pickup
-   
PoE-powered
-   
Up to six mic cascaded
-   
Noise Reduction
-   
Infrared remote control

Designed for business meetings, interactive teaching, and other scenarios, the digital array microphone can be cascaded to expand the microphone according to the size of the space, ensuring that the pickup range covers the entire space; equipped with an audio processing unit and AI audio algorithms, eliminating all kinds of noise, echo and howling in the conference room, delivering a high-quality voice call experience.



## FEATURES

### ▼ DIGITAL MICROPHONE ARRAY

It features a high signal-to-noise ratio ring-shaped microphone array design, achieving 360° omnidirectional audio pickup. This allows speakers to freely move within a larger range in the room, freeing them from constraints.

### ▼ POE CASCADE PICKUP

Each individual microphone has an effective pickup distance of 3m and up to 6 microphones can be cascaded using Power over Ethernet (PoE), enabling distributed audio pickup and uniform coverage in medium to large conference rooms.

### ▼ LOW-LATENCY AUDIO TRANSMISSION

It has a powerful built-in audio processing unit, eliminating the need for an external audio processor. It offers ultra-low signal transmission latency, ensuring seamless and delay-free remote communication.

### ▼ MULTIPLE INTERFACE OUTPUTS

It is equipped with standard USB 2.0 and auxiliary audio interfaces, supporting plug-and-play functionality for both digital and analog audio applications.

### ▼ SOUND SOURCE LOCALIZATION TECHNOLOGY

It utilizes blind beamforming technology to automatically locate the sound source and capture it accurately. It adapts to the acoustic environment and achieves voice enhancement, providing better anti-interference capabilities.

### ▼ AI AUDIO ALGORITHMS

It incorporates various AI algorithm technologies such as intelligent tracking, intelligent noise reduction, echo cancellation, automatic gain control and reverberation removal. Even in noisy environments, clear audio can be easily achieved.

### ▼ MICROPHONE SPECIFICATION

Microphone Array	Built-in 6 high signal-to-noise ratio digital microphones
SNR	65 dB(A)
Sensitivity	-38 dBFS
Sampling Rate	32K
Number of Cascades	6

### ▼ MICROPHONE TYPE

Microphone Type	Omnidirectional Microphone
Pickup Range	360° omnidirectional pickup
Pickup Distance	3 meters clear pickup, 6 meters effective pickup

### ▼ CASCADE METHOD

Cascade Method	PoE
----------------	-----

### ▼ AUDIO ALGORITHMS

Echo Cancellation	Support
Noise Suppression	Support
Gain Control	Support

### ▼ INTERFACE TYPE

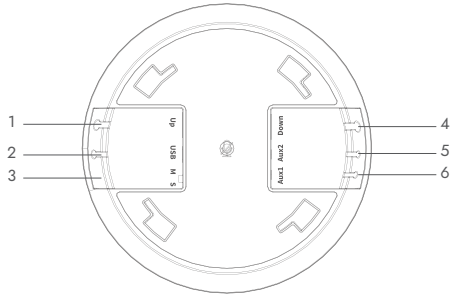
Network Interface	RJ45 uplink and downlink cascade ports
USB	USB Audio interface (Type-C), UAC1.0 agreement
Analog Audio Interface	AUX1, AUX2

### ▼ GENERAL SPECIFICATION

Power Supply Method	PoE cascade, 48V power supply, support IEEE 802.3 at / USB 5V 500mA
Support System	Windows / Mac / Linux
Installation Mode	Desktop placement
Dimension	Φ170mm × H40mm
Weight	370g


## INTERFACE

- 1 — UP
- 2 — USB
- 3 — Aecref
- 4 — Down
- 5 — Aecout
- 6 — Spkout




# Cascadable Ceiling Array Microphone


## RM702C




Omnidirectional Pickup




PoE-powered



Up to six mic cascaded



Ceiling-Mounted Microphone



Infrared remote control

Designed for business meetings, interactive teaching, and other scenarios, the digital array microphone can be cascaded to expand the microphone according to the size of the space; ensuring that the pickup range covers the entire space; equipped with an audio processing unit and AI audio algorithms, eliminating all kinds of noise, echo and howling in the conference room, delivering a high-quality voice call experience.



## FEATURES

### ▼ DIGITAL MICROPHONE ARRAY

It features a high signal-to-noise ratio ring-shaped microphone array design, achieving 360° omnidirectional audio pickup. This allows speakers to freely move within a larger range in the room, freeing them from constraints.

### ▼ POE CASCADE PICKUP

Each individual microphone has an effective pickup distance of 3m and up to 6 microphones can be cascaded using Power over Ethernet (PoE), enabling distributed audio pickup and uniform coverage in medium to large conference rooms.

### ▼ LOW-LATENCY AUDIO TRANSMISSION

It has a powerful built-in audio processing unit, eliminating the need for an external audio processor. It offers ultra-low signal transmission latency, ensuring seamless and delay-free remote communication.

### ▼ MULTIPLE INTERFACE OUTPUTS

It is equipped with standard USB 2.0 and auxiliary audio interfaces, supporting plug-and-play functionality for both digital and analog audio applications.

### ▼ SOUND SOURCE LOCALIZATION TECHNOLOGY

It utilizes blind beamforming technology to automatically locate the sound source and capture it accurately. It adapts to the acoustic environment and achieves voice enhancement, providing better anti-interference capabilities.

### ▼ AI AUDIO ALGORITHMS

It incorporates various AI algorithm technologies such as intelligent tracking, intelligent noise reduction, echo cancellation, automatic gain control and reverberation removal. Even in noisy environments, clear audio can be easily achieved.

### ▼ MICROPHONE SPECIFICATION

Microphone Array	Built-in 6 high signal-to-noise ratio digital microphones
SNR	65 dB(A)
Sensitivity	-38 dBFS
Sampling Rate	32K
Number of Cascades	6

### ▼ MICROPHONE TYPE

Microphone Type	Omnidirectional Microphone
Pickup Range	360° omnidirectional pickup
Pickup Distance	3 meters clear pickup, 6 meters effective pickup

### ▼ CASCADE METHOD

Cascade Method	PoE
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### ▼ AUDIO ALGORITHMS

Echo Cancellation	Support
Noise Suppression	Support
Gain Control	Support

### ▼ INTERFACE TYPE

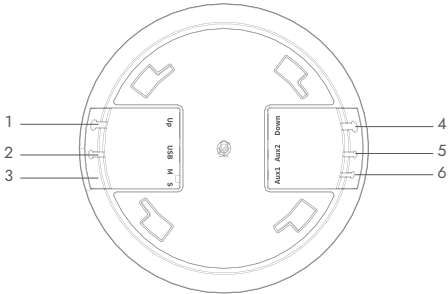
Network Interface	RJ45 uplink and downlink cascade ports
USB	USB Audio interface (Type-C), UAC1.0 agreement
Analog Audio Interface	AUX1, AUX2

### ▼ GENERAL SPECIFICATION

Power Supply Method	PoE cascade, 48V power supply, support IEEE 802.3 at / USB 5V 500mA
Support System	Windows / Mac / Linux
Installation Mode	Suspension mounting
Dimension	Φ170mm × H40mm
Weight	370g

## INTERFACE

- 1 — UP
- 2 — USB
- 3 — Aecref
- 4 — Down
- 5 — Aecout
- 6 — Spkout





# Wireless Smart Conferencing Speakerphone Kit

## A10W



The A10W is designed specifically for corporate meetings. It features advanced AI audio algorithms that eradicate echo, background noise, and voice reverberation, ensuring clear sound for seamless voice calls. It supports USB wireless connections, plug-and-play. The main microphone can also pair with two extra extension microphones to cover the entire room.



## FEATURES

### ▼ PLUG AND PLAY + HIGH COMPATIBILITY

A USB dongle connects to the conference host for instant use without pairing. It employs 2.4GHz full-duplex wireless communication between the main microphone and host, integrating frequency-hopping algorithms and signal synchronization to ensure stable real-time transmission of bidirectional audio signals.

### ▼ LONG RANGE OMNIDIRECTIONAL PICKUP

The main microphone features four high SNR digital microphone arrays for 360-degree omnidirectional sound pickup. Its pickup range is 3 meters and can be expanded with two extension microphones, extending it to 10m.

### ▼ AI-ASSISTED AUDIO ALGORITHM

The microphone uses AI technology for noise reduction, echo cancellation, and reverberation suppression, ensuring clear sound quality during remote meetings and mimicking face-to-face conversations.

### ▼ CONSISTENT VOLUME

With an automatic gain control algorithm, the speakerphone adjusts volume levels based on the speaker's voice, ensuring stable and consistent pickup without volume fluctuations that could impact communication efficiency.

### ▼ ULTRA-HIGH FIDELITY

Featuring high and low-frequency speakers and a resonance chamber design, it delivers deep bass, rich midrange, and clear treble, reproducing lifelike human voices.

### ▼ LEADING DOMESTIC TECHNOLOGY

Hardware localization rate exceeds 98%, with audio algorithms achieving top-three rankings globally in prestigious competitions like Interspeech, IEEE L3DAS21, and ICASSP2022 AEC Challenge.

### ▼ ONE-TOUCH CONFERENCE CONTROL

Supports conference operations directly on the microphone, such as call answer/end, volume+/-, mute, etc., making conference control more convenient.

### ▼ BUSINESS STYLING

Made with an aluminum alloy casing for a high-quality look and feel. Includes wire management grooves and non-slip foot pads at the bottom for stable installation, perfect for different business meeting settings.

## SPECIFICATIONS

### ▼ CONFERENCE CAPABILITY

Coverage Area for Sound Pickup	20-60 m <sup>2</sup>
Number of Participants	6-20 People

### ▼ MICROPHONE SPECIFICATIONS

Microphone Type	High Signal-to-Noise Ratio Digital Silicon Microphone
Microphone Array	Built-in 6(4+2) MEMS Microphones
Pickup Range	360° Omnidirectional Pickup
Pickup Distance	3m optimum pickup range, 10m effective pickup range
Sampling Rate	32 KHz HD Wideband Audio
Frequency Response	50Hz ~ 16kHz
Signal-to-noise Ratio	68 dB(A)
Sensitivity	94 dB SPL @ 1 kHz, -35 dBFS

### ▼ SPEAKER SPECIFICATIONS

Speaker Type	Dual-frequency division design, professional academic sound chamber structure, top-tier sound tuning
Rated output power	15W
Effective frequency range	50Hz ~ 20kHz
Volume	89dBA @ 1m
THD	< 3%

### ▼ SOUND QUALITY

Noise Suppression	Supports AI noise reduction, de-reverberation, AI automatic gain control, echo suppression algorithms, and full-duplex processing capabilities
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### ▼ WIRELESS TECHNOLOGY

Wireless Communication	2.4GHz wireless communication, 48K sampling rate
Wireless Transmission Distance	Up to 15 meters (tested in office environment), Operating Frequency: 50Hz / 60Hz

### ▼ HARDWARE INTERFACES

Power Supply	Operating Voltage: AC 100V ~ 240V, DC 12V Operating Frequency: 50Hz / 60Hz
Supported Systems	Windows / Mac / Android / Linux
USB Interface	USB 2.0 Type-A: (1 * computer interface, used for connecting PC and other devices for audio input/output); UAC 1.0 (2 * extension microphone interfaces, used for connecting extension microphones)
Indicators	Circular indicator light strip, various color combinations, easy to identify the current status of the microphone
Buttons	Touch-sensitive buttons (volume+, volume-, mute, hang up, dial)

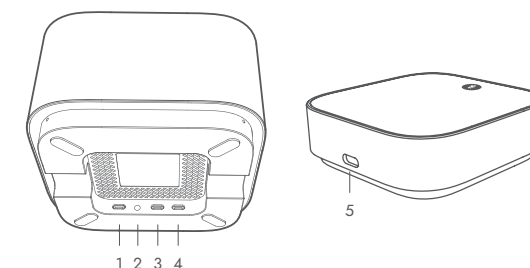
### ▼ GENERAL SPECIFICATION

Bare Machine Dimensions (L x W x H)	Master microphone: 150 x 150 x 85mm Expand microphone: 80 x 80 x 25mm Wireless Adapter: 93 x 28 x 13mm
Packaging Dimensions	297 x 248 x 125mm
Bare Machine Weight	Master microphone: 1.24 kg Expand microphone: 0.13 kg x 2 Wireless Adapter: 0.038g
Total Weight	2.35 kg
Environmental Conditions	Temperature: 0°C ~ 40°C (Operating), -40°C ~ 60°C (Non-operating) Relative Humidity: 45% ~ 90% (Operating), 30% ~ 90% (Non-operating)



## INTERFACE


- 1 — Expand Mic Interface
- 2 — Power Jack
- 3 — USB Interface
- 4 — Expand Mic Interface
- 5 — Expand Mic Interface





COLUMN SPEAKER


Column Speaker

S22

- 

Detachable design
- 

Powerful Speaker
- 

Hi-Fi
- 

Multiple Mounting Options

S22 is a sound column active speaker tailored for medium to large conference room settings. Compact in design, it supports modular and separable deployment, comes with an inbuilt high-power digital amplifier, and boasts high amplification gain to effectively cover the entire venue. The two-way frequency division design for treble and bass guarantees clear and full sound quality, authentically reproducing the conference’s original audio.



FEATURES

▼ AUTHENTIC SOUND REPLICATION

Featuring a two-way frequency division with a tweeter (10W) and a woofer (15W), coupled with low-distortion amplifiers tuned by audio experts, it covers the full sound spectrum. The sound is rich with deep bass, full midrange, and clear highs, ensuring that participants hear the most authentic sounds.

▼ PROFESSIONAL ACOUSTIC DESIGN

The columnar enclosure is compact and space-efficient, breaking away from conventional designs, reducing enclosure vibration, and effectively minimizing noise and distortion.

▼ HIGH VOLUME, FULL COVERAGE

Equipped with a high-performance digital amplifier, it delivers 50W of rated sound reinforcement power, enabling large volume coverage for conference spaces up to 120 square meters, packing powerful output in a small package.

▼ FLEXIBLE AND CONVENIENT

Deployment The active design eliminates the need for an external amplifier, requiring just one audio cable to connect to the conference host for quick setup. Its detachable design allows for separate or unified deployment. With support for tabletop placement or wall mounting, it meets diverse installation needs in various conference room scenarios.

SPECIFICATIONS

▼ SPEAKER

Rated Output Power	(10W + 15W) x 2 (+/- 0.5 dB, 10% THD)
Speaker Impedance	4Ω
Frequency Response	110Hz - 16kHz / ±3 dB
Loudness	50dB SPL @ 1W, 95dB SPL @ 7.5W
Signal-to-noise Ratio	≥65dB
Total Harmonic Distortion	300Hz – 10kHz < 1% @ 7.5W

▼ GENERAL SPECIFICATION

Input Voltage	DC 18V
Input Current	2A
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	30W
MTBF	>30000H
Main Unit(W × D × H)	408.5 × 73 × 90mm
Secondary Unit (W × D × H)	402.5 × 73 × 90mm
Dimension (W × D × H)	805 × 73 × 90mm
Weight	1.5kg
Product Certification	CE, GS, CB, FCC, ETL, SAA, RCM, PSE

▼ INTERFACE

Audio Input	1x Line In, 3.5mm Audio Interface
RCA	1 x RCA, Dual Channel, (Connect the sub-speaker)
Power	DC 18V

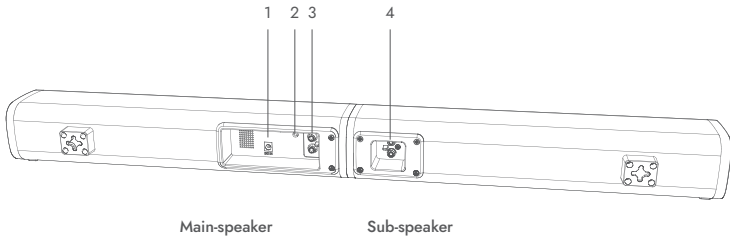
▼ INSTALLATION MODE

Installation Methods	Wall-mounted, Desktop placement
Combined Mode	Separate main and auxiliary units, Integrated main and auxiliary units



INTERFACE


- 1 — DC IN
- 2 — AUX
- 3 — RCA, Connect the sub-speaker
- 4 — RCA, Connect the main-speaker



AUDIO PROCESSOR

Audio Processor

B20M




Audio Processing Algorithms



PoE Cascade



Multiple Interfaces



Plug-and-Play

Designed for large conference rooms, classrooms, lecture halls, and similar settings, this digital audio processor includes a professional digital audio processing unit and algorithms. It can connect to multiple RM702A&RM702C digital array microphones and reliably produce clear and natural sound quality for various scenarios.



FEATURES

- ▼ PROFESSIONAL AUDIO PROCESSOR

Uses a specialized chip and an embedded system for stable performance. It provide accurate volume control, efficient audio processing, low delay, and a secure, reliable system.
- ▼ AI AUDIO ALGORITHM

Includes advanced digital audio features like automatic noise suppression, gain control, echo cancellation, equalization, microphone mixing, and reverb reduction to improve sound quality.

- ▼ MULTIPLE INTERFACES

Can connect up to 6 microphones, 4 line inputs, and 4 line outputs. It also supports USB audio and can add wireless microphones.
- ▼ PLUG-AND-PLAY

It comes with standard RJ45, USB, and line audio interfaces. It's plug and-play, easy to set up, supports long-distance transmission, and has strong interference resistance.

SPECIFICATIONS

▼ SPECIFICATION

Microphone Cascade	Built-in 6 high signal-to-noise ratio digital microphones
Signal-to-noise Ratio	65 dB(A)
Sensitivity	-38 dBFS
Weight	About 0.4Kg

▼ HARDWARE INTERFACE

Network Interface	1 × upstream LAN interface; 1 × downstream cascade digital audio DMIC interface
USB Interface	1 × DEVICE interface, used as a USB audio device to connect to a USB host (such as a PC) 1 × HOST interface, used as a USB host to connect to a USB device
Audio Interface	4 × INPUT phoenix terminal interface 4 × OUTPUT phoenix terminal interface

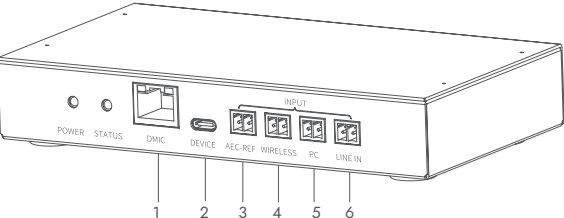
▼ GENERAL SPECIFICATION

Power Supply	DC 12V/5A (supports 8-level cascading) DC 12V/3A (supports 4-level cascading)
PoE	PoE 48V power supply, supports IEEE802.3 AT



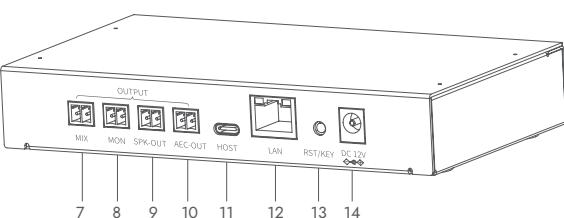
INTERFACE

Front



1 — DMIC Interface  
2 — Type-C Interface  
3 — AEC-REF Interface  
4 — WIRELESS Interface  
5 — PC Audio Input Interface  
6 — LINE IN Interface

Back



7 — MIX Audio Output Interface  
8 — MON Audio Output Interface  
9 — SPK-OUT Interface  
10 — AEC-OUT Interface  
11 — HOST Interface  
12 — RJ45 Interface  
13 — RST/KEY Interface  
14 — Power Interface



# Video Conferencing PC

## RP1S



RP1S is a video conferencing hub designed exclusively for enterprise remote communication and collaboration. With its compact form factor, it serves as a space-efficient alternative to traditional desktop PCs, ensuring it doesn't occupy excessive meeting space. Running on the Windows operating system and powered by a high-performance Intel Core processor, with 16GB of RAM and 128GB of storage, it delivers stable, high-speed audio and video encoding capabilities, providing secure and reliable video conferencing services for small, medium, and large meeting scenarios.



## FEATURES

### ▼ EXCEPTIONAL PERFORMANCE

Powered by Intel Core chips, our robust computing power guarantees a more stable operation of the cloud video conferencing system, capable of withstanding extended meetings.

### ▼ AUTO POWER-ON

Once connected to the power source, the video conferencing hub automatically starts up, eliminating the need to press the power button and ensuring a smoother meeting experience.

### ▼ MULTI-SCREEN DISPLAY

Supporting up to 3 HDMI outputs, you can effortlessly connect to commercial displays and monitors for extended screen display. This allows you to not only show meeting content but also easily share documents.

### ▼ COMPACT DESIGN

The compact form factor of the hub allows for easy portability and can be placed on a desktop or discreetly mounted behind a monitor, helping to keep your meeting room neat and organized.

### ▼ ABUNDANT INTERFACES

Featuring HDMI, USB, LAN, PoE, Audio, and more interfaces, it can seamlessly connect to commercial displays, monitors, microphones, and other devices, catering to a wide range of meeting scenarios.

### ▼ PRE-INSTALLED SOFTWARE

You have the option to pre-install leading cloud video conferencing software like VooV Meeting Rooms, Lark Meeting Rooms, Zoom Rooms, and more. Just log in to your account, and you're ready to use them.

## SPECIFICATIONS

### ▼ BASIC PARAMETER

CPU	11th Gen Intel® Core™ i5 Processor
GPU	Intel® Iris® Xe Graphics
RAM	2*8GB (Dual channel)
Network	Intel® 10M/100M/1000M Adaptive Realtek® 10M/100M/1000M Adaptive(POE)
BT	Bluetooth 4.2
PoE	Support
Multi-screen display	Triple-Screen
HDMI	2 × HDMI In (1 × HDMI2.0, 1 × HDMI1.4b) 3 × HDMI Out (3 × HDMI2.0)
Audio	3.5mm Phone Jack Inx1 3.5mm Phone Jack Outx1
USB	USB3.0x3; USB2.0x1; Type-Cx1
Dimension (W × D × H)	225mm x 142mm x 40mm
Weight	800g

### ▼ SYSTEM

OS	Windows 10
Storage	SATA/PCIe SSD, 128GB
Auto Power On	Support

### ▼ WIRELESS

Wireless	Intel® Wi-Fi5 (802.11ac), 2.4/5GHz
LAN	Intel® 10M/100M/1000M Adaptive

### ▼ CONFERENCING SOFTWARE

Software (Optional)	Zoom Rooms Teams Rooms
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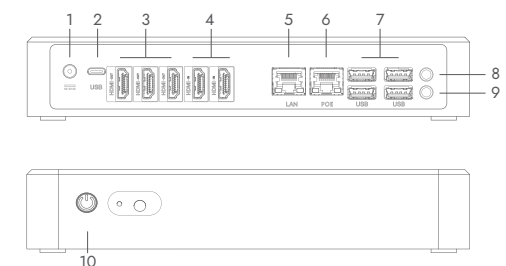
### ▼ OTHER INTERFACE

Input Voltage	DC 19V
Input Current	3.42A
Operating Temperature	0°C - 40°C
Storage Temperature	-20°C - 60°C
Power Consumption	65W
MTBF	>30000h



## INTERFACE

- 1 — DC 19V
- 2 — USB-C
- 3 — HDMI OUT
- 4 — HDMI IN
- 5 — LAN
- 6 — PoE
- 7 — USB-A
- 8 — LINE OUT
- 9 — LINE IN
- 10 — POWER



# Touch Control Panel

## RT13



10.1" Screen



IPS Touch Screen



PoE



Conference Schedule



Software Pre-install



The RT13 is a schedule panel designed specifically for enterprise conference room management. It displays real-time information about room usage and meeting details through screens and LED strips, enhancing conference room utilization efficiency.

## FEATURES

### ▼ FULL HD TOUCHSCREEN

Experience a crystal-clear display and smooth operation with the 10.1-inch IPS Full HD touchscreen powered by a hexa-core processor.

### ▼ MEETING STATUS INDICATION

The dual-sided tricolor LED strips allow real-time synchronization to display the status of conference rooms as available, reserved, or occupied. With those indications, users can quickly confirm room status from a distance.

### ▼ ONE-CLICK MEETING CONTROL

Pre-installed with popular meeting applications like Zoom, this feature allows you to initiate, join, manage, and conclude meetings, as well as share your screen, all with just one click, simplifying your video conference management.

### ▼ REMOTE POWER SUPPLY AND MANAGEMENT

The device supports PoE and network connectivity, simplifying the wiring.

### ▼ HIGH COMPATIBILITY

Users can choose from pre-installed apps such as Zoom Rooms Check-in Board and Zoom Rooms Controller. These apps integrate seamlessly with video meeting management platforms, boosting meeting efficiency.

### ▼ DIVERSE INSTALLATION OPTIONS

This control panel features standard VESA positions for walls, glass, doors, window frames, with a back panel for cable management, supporting horizontal, vertical, and desktop mounting.

## SPECIFICATIONS

### ▼ DISPLAY

Screen	10.1-inch, IPS
Screen Type	IPS Multi-touch Display
Resolution	1920 x 1200
Display Luminance	300 cd/m2 (typ)
Display Ratio	16:10
Viewing Angle	170°

### ▼ HARDWARE

CPU	hexa-core, 4 x Cortex A73 + 2 x Cortex A53
Memory	4GB
Storage	16GB
Image Processor	ARM G52 MP4
OS	Android 9.0
Speaker	1 x 1.2W
Microphone	Built-in
Status Light Strip	Built-in Dual-Side Indicator Light Strip

### ▼ SOFTWARE

Pre-installed Software (choose one)	Zoom Rooms Controller APK Zoom Rooms Check-in Board APK
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### ▼ MULTIMEDIA

Video Coding Format	H.264/H.265, Supports up to 1080P60
Video Decoding Format	VP9 / H.265 / H.264 / AVS2-P2, Supports up to 4Kx2K@60fps
Picture Format	JPEG, JPG, PNG, BMP and other common formats

### ▼ NETWORK

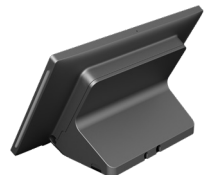
WIFI	IEEE802.11a/b/g/n/ac, WPA, WPA2
Ethernet	10/100 MBaseT
Bluetooth	BT5.0
PoE	Support

### ▼ I/O INTERFACES

USB	1 x USB2.0 Type-C (Supports power supply and data transmission)
RJ45	1 x RJ45 (PoE): 10/100 Base-T

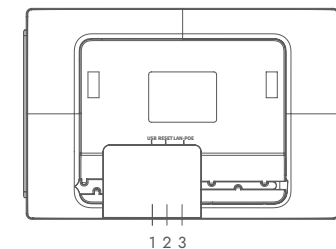
### ▼ GENERAL SPECIFICATIONS

Input Voltage	DC 5V / PoE (802.3af)
Input Current	3.0A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Working Humidity	10% ~ 80%
Storage Humidity	0% ~ 95%
Power Consumption	12W
MTBF	>30000Hours
Dimension (W x D x H)	242 x 162 x 29mm
Net Weight	800g



## INTERFACE

- 1 — USB
- 2 — RESET
- 3 — LAN-PoE



# Wired BYOM Pod

BY42



Plug and Play

4K Wired  
Screen-Sharing

BYOM

PD Reverse  
Charge

Designed for business conference screen-sharing scenarios, this solution seamlessly integrates with cameras, all-in-one video bar, video conferencing terminals, and other AV devices. Featuring plug-and-play functionality, it employs wired connectivity to deliver ultra-high-resolution screen sharing and BYOM (Bring Your Own Meeting) applications, effectively addressing the needs of modern enterprises for adaptable meeting environments.



## FEATURES

### ▼ PLUG-AND-PLAY

Without any driver/software installation, it can achieve instant screen mirroring and one-touch mute control, which gives users an easier meeting experience.

### ▼ 4K SCREEN SHARING

Hardware encoding and decoding ensure wired 4K screen sharing with pixel-perfect fidelity while delivering 1080P resolution in BYOM mode for smooth meeting detail rendering.

### ▼ HIGH COMPATIBILITY

USB-C/HDMI/PD in Port inputs ensure compatibility with PCs and cameras. 1000BaseT Ethernet enables long-distance AV signal transmission for large conference rooms or distributed deployment.

### ▼ MULTIPLE POWER OPTIONS

PoE/USB-C power options with reverse 60W PD charging capability. Eliminates redundant power adapters and simplifies cabling infrastructure.

## 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

### ▼ CONTROL CHARACTERISTICS

USB Control Protocol	UVC/UAC
Body Button	1 screen mirroring button to turn screen mirroring on/off, with dual - color status indicator light 1 mute button to control local mute in BYOM application scenarios, with dual - color status indicator light

### ▼ SYSTEM COMPATIBILITY

Cloud Video Conferencing Software Supported	Microsoft Teams、Zoom、Google Meet
Playback App Supported	Camera application in Windows 10/11 QuickTime application in Mac OS X Other third-party media playback software Windows 7/8.1/10/11 32/64-bit Mac OS X 10.10/10.11/10.12/10.13 or later
Operating System Supported	Windows 7/8.1/10/11 32/64-bit Mac OS X 10.10/10.11/10.12/10.13 or later

### ▼ I/O INTERFACES

USB-C	1 × USB 2.0 Type-C, female socket, supports PD input, USB audio and video output, control signaling transmission, and PD reverse power supply. Maximum power supply capacity: 65W (external power adapter required). 1 × USB 2.0 Type-C, female socket, supports USB PD3.0 protocol, input voltage: up to 20V/3.25A
Ethernet	1 × RJ45, supports 10M/100M/1000Mbps half - duplex and full - duplex adaptive negotiation, supports POE power supply (for the device's own operation only).
HDMI	1 × HDMI 2.0, female socket, supports 4KP30 video input

### ▼ GENERIC SPEC

Input Voltage	USB 5V /PoE (IEEE802.3af)
Input Current	0.6A
Maximum Power Consumption	3.0W
Operating Temperature	0°C ~ +40°C;
Storage Temperature	-40°C ~ +60°C
Operating/Storage Humidity	0 ~ 90% (relative humidity, no condensation)
Dimension (W × H × D)	120 × 18 × 45mm (Excluding wire length)
Net Weight (g)	114g

## INTERFACE

- 1 — POWER  
2 — HDMI  
3 — LAN

