

4K Video Conferencing PTZ Camera (PTZ Camera Pro)

RC841U



4K@30fps



12x Optical Zoom



80.8° Wide Angle



AI Framing



Humanoid Tracking

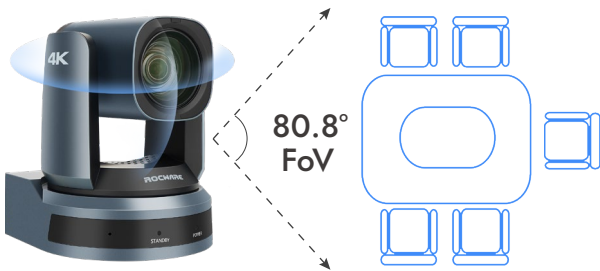
A high-definition video conference camera specially designed for large and medium-sized conference scenarios, featuring a new generation 1/2.5 inch 4K COMS sensor from SONY that enables a resolution of 3840x2160 for ultra-high definition image quality, providing a more delicate and realistic video conferencing experience.

4k-level Image 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



12x Optical zoom



1x 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-assisted Shooting



This camera is equipped with built-in video AI algorithms that can recognize the positions of participants in the conference room and automatically adjust the camera angle to obtain the best composition and framing of the image. It can also be set to track and follow a specific subject as they move during the conference.

Silent Mechanical PTZ



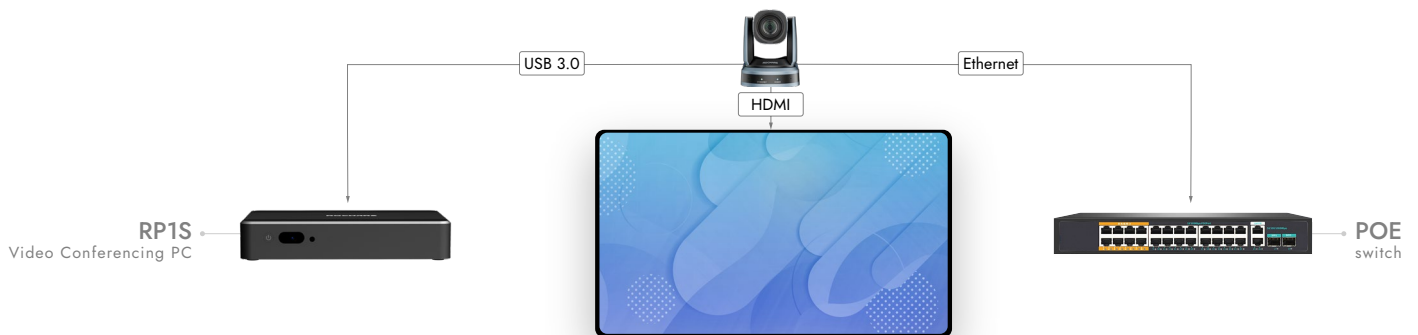
Equipped with a silent mechanical PTZ, this camera has a $\pm 170^\circ$ horizontal rotation range and a $-30^\circ \sim +90^\circ$ vertical rotation range, fully covering the entire conference room space and leaving no blind spots, even in corner positions.

Ultra-high Signal-to-noise Ratio



Equipped with an ultra-high signal-to-noise ratio CMOS image sensor, this camera effectively reduces image noise in low-light conditions. At the same time, it applies 2D and 3D noise reduction algorithms to maintain a clean and clear image in ultra-low light conditions, with a signal-to-noise ratio of over 55dB.

Compatible with Multiple Terminals



This camera supports HDMI, USB3.0, and network interfaces to simultaneously output 4K ultra-high definition video streams, making it compatible with various conference terminals that have different interface requirements.

Compatible with Popular Conference Software



This camera is compatible with mainstream video conference software systems such as Lark, Google Meet, Teams, Zoom, and others, making it easy to connect and start a meeting.

Product Specification

▼ CAMERA

| | |
|---------------------------|---|
| Video Resolution | HDMI: 4KP30, 4KP25, 1080P30, 1080P25 |
| Sensor | 1/2.8", CMOS, 8.51 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 | 2D&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 | 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° |

▼ INPUT / OUTPUT INTERFACE

| | |
|-------------------------|---|
| USB Interface | 1x USB 3.0, Type-C Jack |
| HDMI Output Interface | 1x HDMI 1.4b |
| Network Interface | 1x RJ45: 10M/100M Adaptive Ethernet |
| Audio Interface | 1x Line In, 3.5mm Audio Interface |
| Communication Interface | 1x 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.265 / H.264 / MJPEG |
| Video Stream | Main Stream, Sub Stream |
| Main Stream Resolution | 3840x2160, 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360 |
| Sub Stream Resolution | 1920x1080, 1280x720, 1024x576, 720x576, 720x480, 720x408, 640x360, 480x270, 320x240, 320x180 |
| Video Bit Rate | 32Kbps ~ 102400Kbps |
| Bit Rate Type | Variable Rate, Fixed Rate |
| Frame Rate | 50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps |
| 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 / MJPEG / H.264 |
| Video Format | YUY2 (Isochronous): Max 1080P30; MJPEG: Max 2160P30; H.264 AVC: Max 2160P30; H.264 SVC: Max 2160P30 |
| USB Audio | Support |
| USB Video Communication Protocol | UVC 1.1~1.5 |
| 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 | 142mm (W)×152mm (D)×177mm (H) |
| Weight | 1.56kg |



Independent Research and Development



Own Factory



800-416-1895

Localized Audio and Video Technology

For 16 years since its establishment, Rocware has adhered to independent research, development and innovation, continuously invested in improvement, and fully mastered the core algorithm technology in the field of audio and video. The entire product line is independently controllable, safe, reliable, and highly competitive.

Complete Self-owned Supply Chain

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

Well-developed After-sales Support System

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

Rocware Corporation

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