

# 4K Video Conferencing PTZ Camera

## RC841U



4K 30fps



80.8°  
Wide Angle



12x  
Optical Zoom



Auto Framing with  
AI Technology



Humanoid  
Tracking

RC841U 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 TRACKING

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.

### ▼ COMPATIBLE WITH POPULAR CONFERENCING 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.

### ▼ 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.

### ▼ 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.

### ▼ COMPATIBLE WITH MULTIPLE TERMINALS

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



## SPECIFICATIONS

### ▼ 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) / USB B type (DC IN 5V)

### ▼ 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) × 176mm (H)
Weight	1.56kg

## INTERFACE

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

