4K Video Conferencing PTZ Camera

RC841UX

4K 60fps | 12x Optical Zoom | Presenter Tracking | 80.8° Wide Angle | Zone Tracking

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, 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 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.

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 / MJEPG
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.

INPUT / OUTPUT INTERFACE

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	1x 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	142.5mm (W) × 151.9mm (D) × 188.3mm (H)
Weight	1.56kg

INTERFACE

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

