# 1080P Video Conferencing PTZ Camera

## RC821U

**HD CMOS** · **1080P** FULL HD · **72.5° Wide Angle** · **12x Optical Zoom** · **Group Framing** · **Presenter Tracking**
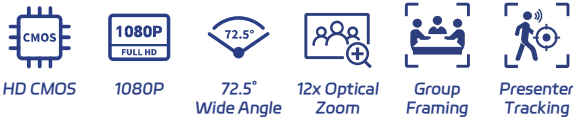
A Full HD video conferencing camera designed specifically for medium to large conference scenarios, featuring a brand-new generation of HD CMOS high-quality sensors that deliver 1920x1080 resolution image quality and output frame rates of up to 60fps, providing a more refined and smooth video conferencing experience.

**ZOOM Certified**

# 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° |

### ▼ INPUT / OUTPUT INTERFACE

| | |
|---|---|
| USB Interface | 1x USB 3.0 , Type-C Jack |
| HDMI Output Interface | 1x HDMI 1.3a |
| 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.264 / MJEPG |
| 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 | 142mm (W) × 152mm (D) × 177mm (H) |
| Weight | 1.45kg |

# 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.

# INTERFACE

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

1  2  3  4  5  6