

ROCWARE

RC821U

USB3.0 HD Video Conferencing Camera

zoom

Certified



The RC821U is a high-quality PTZ camera with HDMI, USB3.0, AV and IP stream ethernet output. Equipping with SNR of COMS sensor allows its ability to deliver outstanding quality even under low light conditions. Support 12x optical zoom, 2.07M pixel, high resolution 1920X1080P@60fps and combine with smooth PTZ functions, which suite for live events, auditorium lectures, sports, gaming competitions, online and distance learning courses, live streaming and other applications.

Main Features

1080P Full HD

Adopt Panasonic's 1/2.8 inch, 2.07 million effective pixels high quality HD CMOS sensor, which can reach maximum 1920 x 1080 high resolution, output frame rate up to 60fps and display clear video, vividly represent the expressions and movements of the characters.



72.5° wide angle lens

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 $\pm 170^\circ$ horizontal rotation and a $-30^\circ \sim +90^\circ$ vertical rotation, ensuring no blind spots in the conference room.



Auto Framing

RC821U can accurately obtain the number and distribution of participants through face detection, intelligently control PTZ cameras to capture all participants in the screen, and adjust to the best screen.



Full Functional USB Interface

Full functional USB interface, compatible with USB3.0 and USB2.0, support UVC v1.0~1.1 protocol, support video raw image and encoded image output.

Remote Control

The camera can be controlled remotely through the RS232, network and USB port.



Triple ways of power supply

power supply Simultaneously support to use 5V USB cable, 12V power cable and PoE for power supply.



PoE

The wired network supports PoE power supply, the control, power supply, video and audio can be completed with a network cable.



Dual Stream

Support two stream output (YUY2, MJPEG, H.264 each of both) to reduce the host codec pressure.

H.264 Slice

The H.264 stream supports Slice encoding modes, and suitable for high-end USB conference video applications.

Low illumination

The new CMOS image sensor with ultra-high noise ratio can effectively reduce image noise in low illumination conditions, and at the same time apply 2D and 3D noise reduction algorithms to greatly reduce image noise, even in ultra-low illumination conditions, still keep the picture clean and clear, and the image signal-to-noise ratio is as high as 55dB.

Product Interface



- | | | | | | |
|----------|--------|---------|------------|------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. RS232 | 2. Net | 3. HDMI | 4. USB 3.0 | 5. Line in | 6. DC 12V |

Remote Control

1.(Standby) Key

Press to enter standby mode. Press again to resume to normal mode.

2.Numeric Key:

To set preset or call preset.

3.* Key:

Use with other keys.

4.PRESET Key

Set preset: Store a preset position.
[PRESET] + Numeric key (0-9): Set the preset position.

5.HOME Key

Confirm selection or press to turn the lens back to the middle position.

6.(Return) Key:

Press to return to the previous menu.

7.ZOOM Key

8.L/R SET Key

9.FOCUS Key

Press [AUTO] to adjust the focus automatically.
Press [MANUAL] to adjust the focus manually.
When in manual focus mode, press [FAR] to focus on far object or [NEAR] to focus on near object.



10.CAMERA SELECT Key

Press the button corresponding to the camera you want to operate with the remote controller.

11.# Key

Use with other buttons.

12.Auto Tracking Key

[F1]: Not enabled
[F2]: Not enabled
[F3]: Start AI Intelligent Tracking
[F4]: Stop AI Intelligent Tracking

14.PTZ Control Key

After zooming, press arrow button to perform panning and tilting. Press [HOME] button to face the camera back to front.

15.MENU Key

Enter or exit OSD MENU.

16.BACKLIGHT Key

Backlight ON/OFF: Press repeatedly to enable or disable the backlight compensation.

17.P/T RST (PTZ Reset) Key

Product Specifications

Camera	
Video System	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
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, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
Signal Noise Ratio	≥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
Vertical Rotation Speed Range	2.7° ~ 31.5°/s
H & V Flip	Support
Image Freeze/Po	Support
Number of Preset	255
Preset Accuracy	0.1°

Input/Output Interface

USB Interface	1xUSB 3.0 , Type-C Jack
HDMI Output	1 x HDMI1.4b
Network Interface	1 x RJ45: 10M/100M Adaptive Ethernet Port
Audio Interface	1x 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) / USB C type(DC IN 5V) / PoE

USB Featured

Operate System	Windows 7, 8, 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / MJPEG /H.264
Video Format	YUY2 : Max1080P@60fps MJPEG: Max1080P@60fps H.264 AVC : Max1080P@60fps
Audio on USB	Support
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support

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	1280x720,1024x576,720x576(50Hz Support), 720x480(60HZ Support),720x408,640x360, 480x270,320x240,320x180
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.

Generic Specification

Input Voltage	DC 12V/DC 5V/PoE(802.3af)
Input Current	12V 1.0A(Max)/5V 1.5A(Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W (Max)
MTBF	>30000h
Size	142mm × 152mm × 176mm
Net Weight	1.5kg

ROCWARE®

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• Local Service & Support

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