COMREON® ROCWARE

4K UHD PTZ Kamera RC90

USB3.0 | 4k | AI Tracking | NDI|HX2

◉ **AI tracking**
With the help of the AI computing power of the chip, the monocular human shape tracking based on advanced AI algorithm, combined with convenient tracking settings, can be used in a variety of scenes such as education, conference and live broadcast to realize the intelligent guide function.

◉ **NDI|HX2 Optional**
NDI|HX2 has the characteristics of low delay and plug and play, which is convenient for project implementation and deployment. It has a good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation of network video transmission mode.

◉ **20x optical zoom**
It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 20 times optical zoom, and the maximum field angle is 60 °

◉ **HDMI2. 0**
Support hdmi2 0 interface, which can directly output 4K60 uncompressed digital video.

◉ **4K UHD**
The new generation of Sony 1/1.8-inch high-quality UHD CMOS sensor with a maximum of 8.42 million pixels can realize 4K (3840x2160) ultra-high resolution images. And downward compatible with 1080p, 720p and other resolutions.

◉ **Low illumination**
The new CMOS image sensor has ultra-high SNR noise ratio can effectively reduce the image noise under low illumination. The application of 3D noise reduction algorithm can greatly reduce the image noise. Even under ultra-low illumination, the picture remains clean and clear, and the image signal-to-noise ratio is more than 55dB.

◉ **Rich and perfect interfaces**
Support HDMI 2 0 HD output, equipped with 3G-SDI interface, with an effective transmission distance of up to 150m (1080p30). HDMI or 3G-SDI, USB and LAN can output 3 HD digital signals at the same time.

◉ **Remote control**
Multiple control modes, RS232, RS485, network and USB can be used to control the camera.

◉ **Gravity sensor**
It supports the automatic image flipping function, which is convenient for installation and use.

Camera	
Video System	4K@60fps,4K@59.94fps, 4K@50fps,4K@30fps, 4K@25fps, 4K@29.97fps, 1080P@60fps, 1080P@50fps, 1080I@60ps, 1080I@50fps,1080P@30ps, 1080P@25fps,1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps,720P@59.94fps, 720P@50fps
Sensor	1/1.8 inch, CMOS,Max Effective Pixel: 8.42M
Scanning Mode	Progressive
Lens	20x, f=6.25mm~125mm, F1.58~F3.95
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	3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	60° ~ 3.5°
Vertical Angle of View	35.7° ~ 2.0°
Horizontal Rotation Range	±162.5°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.8°/s ~ 80.5°/s
Tilt Speed Range	1.5°/s ~ 49°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

Network Features	
Encode Protocol	H.264/H.265/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576,etc
Sub Stream Resolution	720x576, 720x480, 320x240, etc
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable bit rate，Fixed bit rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC、G711
Audio Bit Rate	96Kbps, 128Kbps
Support protocols	NDI®IHX2, SRT, TCP/IP,HTTP,RTSP, RTMP(s),Onvif,DHCP,Multicast,etc

Interface/Indicator	
LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
Communication Interface	1 x RS485: 3pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P
HDMI Interface	1 x HDMI: Version 2.0
LAN(PoE+) Interface	1 x RJ45: 10/100/1000M,Adaptive Ethernet Port. It supports PoE+
USB Interface	1 x USB 3.0: Type-C
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard
Restore Button	1 x Restore Button
Power Jack	JEITA type（DC IN 12V)
Tally Indicator	1 x Tally Indicator
Power Indicator	1 x Power Indicator
Status Indicator	1 x Status Indicator
Display Screen	1 x Display Screen
Power Switch	1 x Power Switch

USB Featured	
Video System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / MJPEG / H.264 / H.265
USB Audio	Support
Video Format	YUY2: max to 1080P@30fps H.264 AVC/SVC: max to2160P@30fps H.265 SVC: max to 2160P@30fps MJPEG: max to 2160P@30fps
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ	Support

General specification	
Input Voltage	DC 12V / 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)
Size	144mm x 144mm x 167.9mm