

# RC20 HD Video Conference Camera



● **1080P full HD**

High quality HD CMOS sensor with 2.07 million effective pixels can achieve high quality image with maximum 1920x1080 resolution.

● **Full-function USB interface**

USB2.0 interface, support coding output.

● **Low-light**

High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions, picture can still keep clean and clear.

● **H.264 Slice**

The output h.264 bit stream supports Slice and SVC encoding mode and is suitable for high-end USB conference video applications.

● **Remote Control**

Using RS232/485 interface, all the parameters of the camera can be remote controlled by the high-speed communications.

● **Double stream**

Support two streams output at the same time (YUY2, MJPEG, H.264), to reduce the host codec pressure.

Camera	
Video System	1080P, 720P, 540P, 480P, 360P, 240P etc. according to different resolution for different color space/compression modes.
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	10x, f4.7mm ~ 46.3mm, F1.8 ~ F2.8
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K-1, 6500K-2, 6500K-3, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	58.5° ~ 6.5°
Vertical Angle of View	35.1° ~ 3.6°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	2.7° ~ 47°/s
Tilt Speed Range	3.4° ~ 30°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

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

Input/Output Interface	
USB Interface	1xUSB2.0: Type B female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VSCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)/USB B type (DC IN 5V)

Generic Specification	
Input Voltage	DC 12V
Current Consumption	0.5A (Max)
Operating Temperature	-10 ~ 40°C
Storage Temperature	-40 ~ 60°C
Power Consumption	6W (Max)
MTBF	>30000h
Size	141.3mm x153mm x 163.6mm
Net Weight	1.153Kg



# RC26 HD Video Conference Camera



- USB3.0**  
 Support USB3.0 TypeC interface, can transfer uncompressed original video, and downward compatible with USB2.0. USB3.0, HDMI, Network can output at the same time.
- Low-illumination**  
 High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions, picture can still keep clean and clear.
- Remote Control**  
 Using RS232 interface, all the parameters of the camera can be remote controlled by the high-speed communications.



- 1080P full HD**  
 Apply Panasonic's 1/2.7 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.
- AAC Audio Encoding**  
 Support audio line in input. Support AAC audio encoding, better sound quality and smaller bandwidth.
- H.265 Support**  
 Enabling full HD 1080p video stream by ultra-low bandwidth.



Camera	
Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K-1, 6500K-2, 6500K-3, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Signal to 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	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Face Detection	Support (optional)
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

Input/Output Interface	
HD Output	1xHDMI: Version 1.4
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	1xUSB3.0: Type C female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)

IPC Feature	
Video Compression	H.265/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 ~ 10240Kbps
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 Feature	
Operate System	Windows XP, Windows Vista, Windows 7, Windows 8, Mac OS X, Linux
Color System / Compression	YUV 4:2:2
Video Format	USB3.0: 1080p/60, 1080p/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support

Generic Specification	
Input Voltage	DC 12V
Current Input	1.0A (Max)
Operating Temperature	-10 ~ 40°C
Storage Temperature	-40 ~ 60°C
Power Consumption	12W (Max)
Size	141.3mm x 153mm x 163.6mm
Net Weight	1.153Kg

# RC19 1080P Ultra-Wide Field USB Camera



● **1080P full HD, ultra wide angle, no distortion**

Support 1080P high definition, maximum can provide 1080@30fps/25fps image encoding output, and backward compatible with 720p and other resolutions. Wide field of view, the maximum horizontal field of view can reach 90°. Two lenses are available, 90°/90° (with AF).

● **Electronic PTZ**

There is no need for mechanical rotating devices to achieve a more accurate rotation, no noise, more reliable and durable pan-tilt function, while supporting 4X digital zoom function.

● **Audio**

The built-in microphone array can pick up omnidirectionally, and the pickup distance is up to 6 meters. The unique noise suppression and AGC algorithm make your voice perfect.

● **USB 2.0**

Full-featured USB 2.0 interface, power supply, video and audio in one.

● **Built-in physical privacy shield**

Equipped with an integrated sliding privacy cover to ensure privacy.

● **Dual stream (optional)**

Simultaneously support two streams of output (YUY2, MJPEG, H.264, any two) to reduce the pressure of host encoding and decoding. (The second channel only supports H.264)

● **Low illumination**

The new CMOS image sensor with starlight level ultra-high performance-to-noise ratio can effectively reduce image noise under low illumination conditions, while applying 2D and 3D noise reduction algorithms to greatly reduce image noise, even under ultra-low illumination conditions, still maintaining the picture It is clean and clear, and the image signal-to-noise ratio is up to 55dB or more.

● **Easy to install**

Standard configuration with damped rotating shaft bracket, adapt to almost 100% of the displays on the market, easy to install, stable and reliable.

Camera	
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focus: f=2.8mm, HFOV: 90°
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual, VAR
Camera bracket	1/30s ~ 1/10000s
Privacy masking	Support
Digital Noise Reduction	2D&3D digital noise reduction
Backlight Compensation	Support
Digital zoom	4X

USB Feature	
Operate System	Windows® 7 (1080p and under only), Windows 8.1, Windows 10 or higher; macOS™ 10.10 or higher; Google™ Chromebook™ Version 29.0.1547.70 or higher; Linux
Hardware Requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB RAM or more USB 2.0 port
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	1080p@30fps/25fps, 720p@30fps/25fps, 960x540p@30fps/25fps, 640x360p@30fps/25fps
USB Video Communication	UVC 1.1
UAC	Support
UVC ePTZ	Support (ePTZ)



Input/Output Interface	
USB Interface	1xUSB 2.0: Type A



Generic Specification	
Input Voltage	5V (USB power supply)
Current Input	200mA
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	1W
Size	103mm*27mm*30mm
Net Weight	153g
MTBF	30000h

# RC15 1080P Ultra-Wide Field USB Camera



- HD & Lens**  
 Support 1080P Full HD with super resolution up to 1080P@30fps/25fps encoding output, and down compatible with 1080p,720p.Wide angle up to 84°(support autofocus)/83°/110°/120°. At the same time, it supports EPTZ to make it more bigger and visible.
- USB**  
 Full functional USB, 2.0 connection,power supply,video and audio all in one and support 2 streaming USB video signal(option) and one audio source.
- Built in Microphone**  
 Built in microphone array,omnidirectional pickup, pickup distance up to 6 meters, noise suppressing algorithm with excelent sound.

- Low Light**  
 Star-level ultra-high noise ratio of the new CMOS image sensor can effectively reduce the low noise in the case of image noise, while the application of 2D and 3D noise reduction algorithm, significantly reducing the image noise, even under low light conditions, still keep the picture Clean and clear, the image signal to noise ratio up to 55dB or more.
- Easy Installation**  
 Equiped with damping rotary shaft bracket, to meet the market almost 100% of the display, easy to install, stable and reliable.

Camera	
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	M12
Lens 1	Focus: f=3.5mm, FOV: 84° Autofocus
Lens 2	Focus: f=3.2mm, FOV: 83°
Lens 3	Focus: f=2.2mm, FOV: 110°
Lens 4	Focus: f=3.1mm, FOV: 120°
Autofocus	Support(only 84° support)
Minimal Illumination	0.05 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual, VAR
Camera bracket	Bracket with damper
Digital Noise Reduction	2D,3D digital noise reduction
Backlight Compensation	Support
Zoom	4X Zoom(83°/84°/110 ° Support)

General specification	
Input Voltage	5V (USB power supply)
Current Consumption	270mA
Operating Temperature	0°C ~ 40°C(14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	1.4W
Size	118mm x37.2mm x 30.8mm (Bracket not included)
Net Weight	93g
WTFB	30000h



USB Feature	
Operate System	Windows® 7 (1080P and under only), Windows 8.1, Windows 10 or higher macOS™ 10.10 or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux
Hardware Requirement	2.4 GHz Intel® Core 2 Duo processor or higher;2 GB RAM or More USB 2.0 interface
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	1080p@30fps/25fps, 720p@30fps/25fps, 960x540p@30fps/25fps, 640x360p@30fps/25fps
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support(EPTZ)



Input/Output Interface	
USB Interface	1xUSB 2.0: Type A

# RC16 4K Ultra HD USB Camera



● **Ultra-high definition and ultra-large field of view**

Equipped with a new generation of UHD CMOS image sensor, it has more accurate native resolution, richer color information, four times the effect of HD image, and shoots 4K video with full details. With a 110-degree ultra-large Angle and low distortion 4K lens, the panoramic view is unobtrusive.

● **USB 3.0**

Full-function USB 3.0 interface, power supply, video, audio in one, can also support 2 USB video signal source (optional)+1 channel audio source at the same time.

● **The wave speed forms a microphone array**

Built - in beamforming microphone array, unique noise suppression algorithm and automatic gain algorithm, pick up distance up to 6 meters, make your speech perfect presentation.

● **AI ability**

Multi-layer convolutional neural network design, cutting-edge deep learning algorithms, enabling intelligent features of the camera, high quality analysis data can be accessed through open APIs.

● **Auto Framing**

The advanced deep learning algorithm is adopted to automatically adjust the size of the picture Angle according to the people in the detection field of vision, eliminating the need for manual adjustment of camera operation, bringing you a new intelligent experience.

● **AI humanoid tracking**

Embedded NNE hardware unit, using deep learning technology, through the extraction of target features, no matter where the face is facing, can achieve smooth humanoid tracking, suitable for automatic speaker tracking and other application scenarios.

● **Convenient operation**

With exquisite infrared remote control and exclusive software, automatic box selection and humanoid tracking can be started with one button, and preset position, EPTZ, image parameters can be set at the same time.

Camera	
Sensor	1/2.7", CMOS, Effective Pixel: 829M
Scanning Mode	Progressive
Lens Mount	M12
Lens	Focus: f=2.2mm, FOV: 110°
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Camera bracket	Bracket with damper
Digital Noise Reduction	2D,3D digital noise reduction
Backlight Compensation	Support



General specification	
Input Voltage	5V (USB power supply)
Current Consumption	600mA(MAX)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	3.0W(MAX)
Size	118mm x37.2mm x 30.8mm (Bracket not included)
Net Weight	0.2KG
WTBF	30000h



USB Feature	
Operate System	Windows® 7 (1080P and under only), Windows 8.1, Windows 10 or higher macOS™ 10.10 or higher Google™ Chromebook™ Version 29.0,1547.70 or higher Linux (support UVC)
Hardware Requirement	2.4 GHz Intel® Core 2 Duo processor or higher;2 GB RAM or higher USB 2.0 interface
Color System / Compression	H.264 / MJPEG /YUY2 /NV12
Video Format	4k@30fps/25fps, 1080p@30fps/25fps, 720p@30fps/25fps, 960x540p@30fps/25fps, 640x360p@30fps/25fps etc
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support(EPTZ)



Input/Output Interface	
USB Interface	1xUSB 3.0: Type-C, female
IR remote	support

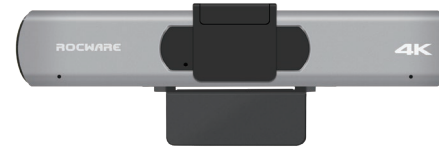
# RC17 4K Ultra HD Auto Focus Camera



- Ultra 4K HD**  
 Support 4K Ultra HD with super resolution up to 4K@30fps/25fps encoding output, and down compatible with 1080p,720p.
- USB 3.0**  
 Full functional USB, 3.0 connection,power supply, video and audio all in one and support 2 streaming USB video signal and one audio source.
- Light illumination**  
 Star-level ultra-high noise ratio of the new CMOS image sensor can effectively reduce the low noise in the case of image noise, while the application of 2D and 3D noise reduction algorithm, significantly reducing the image noise, even under low light conditions, still keep the picture Clean and clear, the image signal to noise ratio up to 55dB or more.

- AI Feature**  
 Auto framing
- AF Lens**  
 Complete customized auto focus non-distortion lens, view angle up to 84° / 120°, small lens with big view,supporting EPTZ.
- WDR**  
 Support WDR, can handle different lighting environment.
- Built in Microphone**  
 Built in microphone array,omnidirectional pickup, pickup distance up to 6 meters, noise suppressing algorithm with excelent sound.
- Easy Installation**  
 Equiped with damping rotary shaft bracket, to meet the market almost 100% of the display, easy to install, stable and reliable.

Camera	
Sensor	1/2.5", CMOS, Effective Pixel: 8.51M
Scanning Mode	Progressive
Lens Mount	M12
Lens 1(Default)	Focus: f=3.5mm, FOV: 84°
Lens 2	Focus: f=2.8mm, FOV: 120°
Autofocus	Support (84°)
Minimal Illumination	0.05 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Camera bracket	Bracket with damper
Digital Noise Reduction	2D,3D digital noise reduction
Backlight Compensation	Support



General specification	
Input Voltage	5V (USB power supply)
Current Consumption	600mA
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	3W
Size	194mm x 34mm x 42mm
Net Weight	0.5kg



USB Feature	
Operate System	Windows® 7 (1080P and under only), Windows 8.1, Windows 10 or higher macOS™ 10.10 or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux
Hardware Requirement	2.4 GHz Intel® Core 2 Duo processor or higher;2 GB RAM or higher USB 2.0 interface
Color space/ compression	H.265 / H.264 / MJPEG
Video resolution	4k@30fps/25fps, 1080p@60fps/50fps/30fps/25fps, 720p@60fps/50fps/30fps/25fps,960x540p@60fps/50fps/30fps/25fps, 640x360p@60fps/50fps/30fps/25fps
USB Video Communication Protocol	UVC 1.0 ~ UVC 1.5
UVC PTZ	Support(EPTZ)



Input/Output Interface	
USB Interface	1xUSB 3.0: Type B, female

# RC57 USB2.0 HD Video Conference Camera



● **1080P Full HD**

Apply 1/2.8 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

● **Full Function USB Interface**

High speed USB interface, support compressed video output, support UVC protocol.

● **Remote Control**

Using RS232 interface, all the parameters of the camera can be remote controlled by the high-speed communications.

● **Ultra high compatibility**

Support UVC v1.1 protocol, and support almost all video conference software on the market.

● **72.5° Wide-angle Lens + 16x Digital Zoom**

Use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom.

● **Light illumination**

Star-level ultra-high noise ratio of the new CMOS image sensor can effectively reduce the low noise in the case of image noise, while the application of 2D and 3D noise reduction algorithm, significantly reducing the image noise, even under low light conditions, still keep the picture Clean and clear, the image signal to noise ratio up to 55dB or more.

Camera	
Video Resolution	1080p, 720p, 540p, 480p, 360p, 240p etc.
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f=3.5mm ~ 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(2500K ~ 8000K)
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	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°

Input/Output Interface	
USB Interface	1xUSB2.0: Type B female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P, 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA for networking
Power Jack	JEITA type (DC IN 12V))



USB Featured	
Video System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG
UVC Audio	Support
Video resolution	YUY2 (ISOC): max to 640x480P@30fps H.264 AVC: max to 1080P@30fps MJPEG: max to 1080P@30fps
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support

General specification	
Input Voltage	DC12V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
MTBF	>30000h
Size	128.5mm x 118mm x 156.2mm
Net Weight	1.35Kg

# RC58 USB3.0 HD Video Conference Camera



### 1080P Full HD

Apply 1/2.8 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920x1080 high resolution and achieve quality image.

### Full Function USB Interface

Full function USB interface, compatibility USB3.0 and USB2.0, support audio, support compressed video output, support UVC v1.1~1.5 protocol.

### Remote Control

Using RS232 all the parameters of the camera can be remote controlled by the high-speed communications.

### Dual power supply

Support two power supply (DC IN 5V and DC IN 12V)

### Dual stream

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

### H.264 Slice/ H.264 SVC Support

Support Slice and SVC encoding mode, adapts to video conference of advance USB application.

### 72.5° Wide-angle Lens + 16x Digital Zoom

Use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom.

### Light illumination

Star-level ultra-high noise ratio of the new CMOS image sensor can effectively reduce the low noise in the case of image noise, while the application of 2D and 3D noise reduction algorithm, significantly reducing the image noise, even under low light conditions, still keep the picture Clean and clear, the image signal to noise ratio up to 55dB or more.

Camera	
Video Resolution	1080p, 720p, 540p, 480p, 360p, 240p etc.
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f=3.5mm ~ 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
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°

IPC Features	
Video Compression	H.265 / H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	720x576, 720x480, 320x240
Video Bit Rate	32Kbps ~ 20480Kbps
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.

Input/Output Interface	
USB Interface	1xUSB3.0: Type B female jack
Communication Interface	1xRS232 In:8pin Min DIN, Max Distance: 30m, Protocol: VSCA/Pelco-D/Pelco-P
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Power Jack	JEITA type (DC IN 12V)/USB B type (DC IN 5V)
Audio Interface	1-ch: 3.5mm Audio Interface, Line In



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

General specification	
Input Voltage	DC 12V/DC 5V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
MTBF	>30000h
Size	144mm x 144mm x 167.9mm
Net Weight	1.285 KG



# RC10 4K UHD ALL-IN-ONE USB Camera



### Applicable scene

It is specially designed for small and medium-sized meeting rooms, for the Huddle Room with 4 to 6 person, to help enterprises re-tap the potential of using the small and micro meeting space inside.

### Product value

It is convenient for small and medium-sized enterprises to conduct daily business negotiation and team cooperation in different places flexibly, so as to create a relaxed, free and smooth conversation environment, make decisions quickly and improve efficiency.

### All-in-one design

The three-in-one design of 4K ultra HD camera, beamforming microphone and full-frequency loudspeaker reduces wiring and makes video communication easy.

### 4K UHD

Using 1/2.5 inch, 8.51M pixel high quality UHD CMOS sensor, 4K (3840x2160) @30fps ultra high resolution clear image, and downward compatible with 1080P, 720P and other resolutions. Can meet the needs of users for different video experiences, and can provide clearer, real, smooth and accurate communication.

### Rich interfaces

Support HDMI 2.0 and USB 3.0 audio video output simultaneously.

### Easy installation

Flexible installation options such as countertops, walls, and TV/display screens are available for quick installation and deployment in a crowded meeting room.

### Wide FoV

121° wide field of view (110° horizontal field of view), 5x optical zoom lens customized for the conference scene, built-in electric head (horizontal and pitch ±15° motion range), participants can easily enter the scene clearly.

### Beamforming microphone

Beam Forming (BF) microphone is built in, with a pickup distance of 6 meters. Low-distortion transverse beamforming algorithm can direct the microphone directly to the speaker, with better sound, clearer communication, fuller and more authentic.

### Audio 3A algorithm

Built-in audio 3A algorithm (AEC/AGC/ANS), full duplex dialogue, can meet the communication needs of different room structures, whether sitting at a conference table, sitting against the wall or standing, can have comfortable experience for calling.

### Full frequency speaker

Full frequency Hi-Fi loudspeaker, professional acoustics design, reduce noise interference, provide outstanding sound effect.

### Plug and play type

Through plug and play USB interface connect with the computer or business display screen, very easy to use. Less wiring, convenient video communication, reduce the user's learning cost.

### Intelligent analysis

Built-in intelligent analysis algorithm, listening to the speaker position, automatic framing of participants, automatic tracking of speakers, switching the speaker screen, to ensure that the speaker is always clearly in the picture.

Camera	
Video System	4K@30fps, 1080P@60fps, 1080P@30fps, 720P@60fps, 720P@30fps
Sensor	1/2.5 inch, CMOS, 8.51M pixel
Lens	121° (DFOV), 110° (HFOV), 5x optical zoom, pan/tilt ±15°
PTZ	MPT + EPTZ
Digital Noise Reduction	2D&3D digital noise reduction
Video S/N	>55dB
Backlight Compensation	Support

Audio	
Full frequency speaker	96 dB SPL in the case of 0.5 meter
External MIC	Support (Optional, extra cost)
Microphone array	Omnidirectional microphone, Sensitivity:-30±2dB



Certification	
Certified client application	Skype for Business, Compatible with Cisco (Jabber) Cortana
Adaptable application	LCP(ZoomBlueJeans, Broadsoft, Starleaf, Pexip, Vido) and all UVC application (Google Hangouts, Go to Meeting, etc)

General specification	
Remote	2.4G remote controller
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Size	600mm * 140mm * 115mm (holder included)
Net Weight	2.5 Kg

Input/Output Interface	
Control mode	1 * HDMI 2.0 ;
USB interface	1 * USB3.0, Type C ; 1 * USB2.0, Type A ;
Wireless	BT
Power jack	DC 12V, 2A (MAX)



USB features	
Connection type	USB 3.0, downward compatible with USB2.0
Video Compression	H.264 / MJPEG / YUY2 / NV12
USB audio	32K sampling rate, support UAC1.0
USB video communication protocol	UVC 1.1~1.5
UVC PTZ control	Support

System compatibility	
OS	Windows 7 (only 1080p and below), Windows 8.1, Windows 10 or higher, macOS® 10.10 or higher, Google Chromebook™ Version 29.0.1547.70 or higher, Linux (requires support for UVC) Android
Hardware platform	2.4 GHz Intel® Core 2™ Duo processor or higher; 2 GB of memory or higher; USB 2.0 interface; (4K video output need USB 3.0 interface)

Others	
Control mode	2.4G remote controller
Installation mode	Support for desktop, wall, TV, and other installation options
Standard cable	USB3.0 (2 meters)
Safety protection	Security lock jack

# RC03 4K UHD Box Camera



- 4k  
Ultra HD
- AF  
Lens
- POC &  
POE

- Ultra 4K HD**  
Apply 4K Sensor and 4K Lens, to achieve high-definition EPTZ effect.
- Intelligent teaching tracking**  
Built-in advanced image recognition and tracking algorithm, a smooth and natural tracking effect can be achieved without any extra positioning camera or tracking host. Different lenses are used to achieve teacher tracking or student tracking.

**Low Light**  
Ultra-high noise ratio of the new CMOS image sensor can effectively reduce the low noise in the case of image noise, while the application of 2D and 3D noise reduction algorithm, significantly reducing the image noise, even under low light conditions, still keep the picture Clean and clear, the image signal to noise ratio up to 55dB or more.

- AF Lens**  
42° lens with auto focus is used on teacher tracking camera, low distortion lens is used on student tracking camera, horizontal field of view is up to 95°. EPTZ supported.
- Two interfaces output at the same time**  
Support 3G-SDI interface, effective transmission distance up to 150 meters (1080p25). SDI and network can be output at the same time.
- PoC & PoE supported**  
Support PoC(Power over Cable) & PoE(Power Over Ethernet). Power, video, audio, control three-in-one.
- Support interleaving mode**  
Achieve single camera and single SDI interface to simultaneously output panoramic and close-up signals.

Camera	
Sensor	1/2.8", CMOS, Effective Pixel: 8.46M
Scanning Mode	Progressive
Lens Mount	M12
Lens 1 (teacher)	Focus: f=7.2mm, HFOV: 42°
Lens 2 (student)	Focus: f=2.8mm, HFOV: 95°
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature
Digital Noise Reduction	2D&3D Digital Noise Reduction
Backlight Compensation	>=55dB
EPTZ	Support
Autofocus	Teacher mode support
Digital zoom	8X
PoE	Support
Lens 1 / 2	Teacher mode / Student mode

Network Features	
Video Compression	H.264 / MJPEG
Video Stream	The first, second, third, fourth stream
The First Stream	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360, 320x240, 320x180
The Second Stream	3840x2160, 1920x1080, 1920x1080, 1280x720, 1024x576, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270
The Third Stream	1920x1080, 1280x720, 1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180
The Fourth Stream	1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180
Video Bit Rate	32Kbps ~ 16384Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	25fps
Audio Compression	AAC/G711A
Audio Bit Rate	96Kbps, 128Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, 28181, Multicast, etc.

General specification	
Input Voltage	DC 12V / PoE (IEEE802.3af) / PoC
Current Consumption	0.5A(Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6W(Max)
Size	72mm x 60mm x 130mm (not include the protruding part)
Net Weight	0.37kg
MTBF	>30000h



Input/Output Interface	
HD Output	1x3G-SDI: BNC type, 800mVp-p, 75 Ω Along to SMPTE 424M standard, Support PoC
USB Interface	1xUSB2.0: Type A
Network Interface	1xRJ45: 10M/100M/1000M Ethernet Interface, PoE Support
Audio Interface	1x line in: 3pin Phoenix Port
Communication Interface	1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	DC005 type (DC 12V)