

1080p60 Full HD USB HDMI PTZ Camera

The UVCU3 series camera offers perfect functions, superior performance and rich interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even under less than ideal bandwidth conditions.



NDI

1080p 60fps Auto Framing AI Tracking UVC1.1~1.5 12X/20X POE NDI Optional
Optical Zoom

Key Features

- 1080p Full HD**
 Using a new generation of Panasonic 1/2.8-inch, 2.07 million effective pixels of high-quality HD CMOS sensor, it can achieve up to 1920x1080 high-resolution high-quality images.
- 12X/20X Optical Zoom + 16x digital zoom**
 UVC12XU3: 12X Optical Zoom + 16x digital zoom + 72.5°
 UVC20XU3: 12X Optical Zoom + 16x digital zoom + 61.1°
- AI Powered**
 Support AI Tracking, Auto Framing.
- Full function USB interface**
 Full function USB interface, compatible with USB3.0, USB2.0, support audio, support coded output, support UVC v1.1 ~ 1.5 agreement.
- Low Light Enhancement**
 The camera ensures clear images in low-light situations by using a CMOS image sensor of 55dB SNR and a 2D & 3D noise reduction to reduce image noise in low-light conditions.
- POE support**
 The wired network supports PoE power supply, and control, power supply, video and audio can be completed with only one network cable.
- Remote control**
 Multiple control modes, using RS232, RS485, network and USB to control the camera.
- H.264 slice / H.264 SVC coding support**
 The output H.264 code stream supports slice and SVC coding modes, and is suitable for high-end USB conference video applications.
- Dual bitstream**
 At the same time, it supports two-way code stream output (any two channels of YUY2, MJPEG and H.264) to reduce the encoding and decoding pressure of the host.
- Supports NDI® |HX2 (Optional)**
 Supports the network video transmission technology NDI® |HX2, featuring plug-and-play, low latency, and easy deployment.
- Rich and perfect interfaces**
 Support 1080P video output via HDMI, USB 3.0 and network interface simultaneously.
- Three power supply modes**
 It also supports USB 5V power supply, 12V power adapter power supply and PoE power supply.
- Multiple Preset**
 Support 255 preset positions (the remote controller is set to 10 preset positions).
- Wide Application**
 Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command system.

Technical Specification

Model	UVC12XU3	UVC20XU3
Camera Parameter		
Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels	16: 9, 2.07 megapixel	
Signal system	1080P60, 1080P50, 1080P30, 1080P35, 720P60, 720P50	
Optical Zoom	12X f3.5mm ~ 42.3mm	20X F=4.7mm ~ 94mm
View Angle	72.5° ~ 6.9°	61.1° ~ 3.5°
AV	F1.8 ~ F2.8	F1.6 ~ F3.6
Digital Zoom	16X	
Minimum Illumination	0.5Lux (F1.8, AGC ON)	
DNR	2D & 3D DNR	
White Balance	Automatic, indoor, outdoor, one button, manual, color changing temperature	
Focus	Auto/Manual/One push focus	
Aperture/Electronic Shutter	Auto/Manual	
BLC	ON/OFF	
WDR	OFF/ Dynamic level adjustment	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve	
SNR	>55dB	
Input/Output Interface		
Interfaces	USB 3.0, type-C, HDMI, LAN, RS232, RS485	
Video Output Interfaces	HDMI, LAN, USB3.0	
Image Stream	Double stream output	
Video Compression Format	H.264/MJPEG	
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate:115200/9600/4800/2400bps	
Audio Input Interface	Line In, 3.5mm audio interface	
Network Interface	RJ45: 10M / 100M adaptive Ethernet port	
Network Protocol	RTMPS, RTSP, RTMP, ONVIF, GB/T28181, Network VISCA Control Protocol, Support remote upgrade, reboot and reset.	
Control Interface	RS232, RS485	
Power Adapter	Input: AC110V-AC220V; Output: DC12V/1.5A	
Input voltage	DC 12V/DC 5V/PoE(802.3af)	
Input current	12V 1.0A(Max)/5V 1.5A(Max)	
Power Consumption	12W(Maximum)	
USB Features		
Support operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android	
Color space / compression	YUY2 / H.264 / MJPEG	
Video format	YUY2 (Isochronous mode): maximum 1080P@60fps	

H.264 AVC: maximum 1080P@60fps

H.264 SVC: maximum 1080P@60fps

MJPEG: maximum 1080P@60fps

USB Audio	Support
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USB video communication protocol	UVC 1.1~1.5
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UVC PTZ control	Support
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IP Features

Video coding standard	H.264/MJPEG
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Video stream	First code stream, Second code stream
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First bitstream resolution	1920x1080,1280x720,1024x576,960x540,640x480,640x360
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Second bitstream resolution	1280x720,1024x576,720x576(50Hz Support), 720x480(60Hz Support), 720x408, 640x360, 480x270, 320x240, 320x180
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Video bit rate	32Kbps ~ 102400Kbps
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Rate control	Variable bit rate, Fixed bit rate
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Frame rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
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Audio compression standard	AAC
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Audio bit rate	96Kbps, 128Kbps, 256Kbps
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Protocal	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc
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AI Feature	AI Tracking, Auto Framing
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PTZ Parameter

Pan/Tilt Rotation	±170°, -30°~+90°
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Horizontal rotation speed range	2.7° ~ 35.7° /s
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Vertical rotation speed range	2.7° ~ 31.5° /s
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Flip horizontally and vertically	Support
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Image freeze	Support
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Preset Number	255 presets (10 presets by remote controller)
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Other Parameter

Stored Temperature	-10°C~+60°C
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Stored Humidity	20%~95%
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Working Temperature	-10°C~+50°C
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Working Humidity	20%~80%
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Dimension	150mm×150mm×167.5mm
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Weight (around)	1.4KG
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Accessory

Package	Power supply, USB3.0 connection cable, Remote controller, User manual
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Optional Accessories	Ceiling / Wall Mount (Extra Cost)
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Interface Picture:

