

1080p60 Full HD USB HDMI PTZ Camera

The UVCU3-NDI 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® |HX2
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**
 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-NDI	UVC20XU3-NDI
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(NDI), 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:

