

1080p60 Full HD AI PTZ Camera

Designed for activities such as work presentations and business negotiations, the cameras feature 1080P full HD telephoto lenses with 12x/20x/30x optical zoom, ensuring clarity at various distances. Equipped with AI automatic framing and humanoid tracking algorithms, these cameras provide a professional and intelligent meeting experience without manual intervention.



1080p 60fps



Low Latency



AI Tracking



12X/20X/30X Optical Zoom



POE+

NDI

NDI Optional

Key Features

● 1080P Full HD

Utilizing a 1/2.8-inch, 2.07 million effective pixel HD CMOS sensor, these cameras achieve a maximum resolution of 1920x1080.

● Multiple Optical Zoom Lens + UHD Wide-Angle Lens

UVC61-12X: 12x optical zoom +16x digital zoom + 72.5° horizontal FoV.

UVC61-20X: 20x optical zoom +16x digital zoom + 60.7° horizontal FoV.

UVC61-30X: 30x optical zoom +16x digital zoom + 60.7° horizontal FoV.

● Upgraded AI Technology

Equipped with AI algorithms like pedestrian re-identification and facial recognition, accurately identifying target's movements, automatically adjusting the lens. It can also recognize and track subjects automatically, no need for manual operation.

● Full Interface & Low Latency

HDMI, 3G-SDI, USB3.0, LAN.

All video output interfaces meet low latency standards, supporting 4 simultaneous outputs, all capable of 1080P60. SDI support transmission up to 100m under 1080P60 format.

● Low-Light Enhancement

A brand-new CMOS image sensor with a 55dB SNR effectively reduces image noise in low-light conditions. The 3D noise reduction significantly lowers image noise,

ensuring clear images in low-light situations.

● POE+ support

The wired network supports Poe power supply, and control, power supply, video and audio can be completed with only one network cable.

● Multiple Control Interface

RS485, RS232-IN, RS232-OUT, and the RS232 interface supports cascading.

● Uncompressed Professional Video Output

Supports HDMI2.0 and 3G-SDI interfaces, allowing direct output of uncompressed digital video.

● Built-in Gravity Sensor

Supports image auto-flipping function, facilitating easy installation and use in various setups.

● Supports FULL NDI & NDI® |HX2 (Optional)

Support FULL NDI2, which allows the transmission of NDI-encoded videos. They are also backward compatible with NDI® |HX2 protocol, which requires lower network bandwidth and enables low-latency transmission of H.265/H.264 encoded videos.

● Multiple Preset

Support 255 preset positions (the remote controller is set to 10preset positions).

● Wide Application

Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command system.

Technical Specification

Model	UVC61-12X	UVC61-20X	UVC61-30X
Camera Specification			
Sensor	1/2.8 inches, CMOS, Effective Pixels: 2.07MP		
Lens	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8	30x, f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Horizontal FOV	72.5° ~ 6.9°	60.7° ~ 3.36°	60.7° ~ 2.28°
Vertical FOV	44.8° ~ 3.9°	34.1° ~ 1.89°	34.1° ~ 1.28°
Signal System	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50		
Digital Zoom	16X		
AI Feature	AI Tracking		
PoE+	Support		
Scanning Mode	Progressive		
Digital Zoom	16X		
Minimum Illumination	0.5Lux (F1.8, AGC ON)		
Shutter	1/30s ~ 1/10000s		
DNR	2D & 3D DNR		
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR		
Backlight Compensation	Support		
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, 3G-SDI, HDMI, LAN, Audio-IN/OUT, RS232, RS485; NDI (Optional)		
Video Output Interfaces	USB3.0, 3G-SDI, HDMI, LAN		
Network Interface	RJ45: 10M / 100M adaptive Ethernet port		
Audio Interface	1 x LINE IN: 3.5mm Jack 1 x LINE OUT: 3.5mm Jack		
USB Interface	1 x USB3.0		
Control Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only		
Power Interface	JEITA type(DC IN 12V)		
Audio			
Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response.		
Network Specification			
Video Compression Format	H.264		
Image Stream	First Stream, Second Stream		

First Stream Resolution	1920x1080, 1280x720, 1024x576 etc.
Second Stream Resolution	1280x720,1024x576,720x576 etc.
Video Bit Rate	32kbps~20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	FULL NDI, NDI HX2, TCP/IP, HTTP, RTSP, RTMP, RTMP(s), Onvif, DHCP, Multicast, ,SRT,GB/T28181 etc.

USB Specification

Support operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color space / compression	YUY2 / H.264 / MJPEG
Video format	Support a variety of different frame rates and resolution video formats, up to 1080p60 YUY2 output
USB Audio	32K Sampling Rate, Support UAC2.0
USB video communication protocol	UVC 1.1 and 1.5
UVC PTZ control	Support

PTZ Specification

Pan/Tilt Rotation	±170°, -30°~+90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
Image Flip	Support
Image Freeze	Support
Preset Number	255 presets (10 presets by remote controller)

Other Specification

Input Voltage	DC 12V /PoE+ (802.3at)
Input Current	1.5A (Max.)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Power Consumption	15W (Max.)
Net Weight	1.5kg
Dimension	142mm (W) x 169mm (D) x 175mm (H)

Accessory

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

Interface Picture:

