

## 4Kp60 Ultra HD AI PTZ Camera

These cameras are designed for medium to large meeting rooms and utilize larger UHD CMOS sensors, delivering 4K (3840x2160) images. Equipped with 12-20x ultra-long optical zoom lenses and integrated with AI humanoid tracking algorithms, they achieve precise recognition and tracking targets from any position in the venue.



4K 60fps



Multiple  
Interfaces



AI Tracking



12X/20X  
Optical Zoom



POE+

NDI

NDI® |HX2

## Key Features

- 4K Ultra HD**  
 High-quality 1/1.8-inch UHD CMOS sensor with 8.51 million effective pixels for ultra-high resolution high-quality images up to 4K (3840x2160) and downward compatible with 1080P, 720P and other resolutions.
- Multiple Optical Zoom Lens + UHD Wide-Angle Lens**  
 UVC61-20X-4K-NDI: 20x optical zoom +16x digital zoom + 60° horizontal FoV.  
 UVC61-12X-4K-NDI: 12x optical zoom +16x digital zoom + 71° horizontal FoV.
- AI Humanoid Tracking**  
 Incorporating advanced AI algorithms for single-lens humanoid tracking, the camera automatically follows and captures the target, ensuring stable images.
- Rich and perfect interfaces**  
 In addition to the HDMI 2.0 interface, it comes with a 3G-SDI interface with an effective transmission distance of up to 150 meters (1080p30). HDMI, 3G-SDI, USB, and LAN can simultaneously output three HD digital signals.
- 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.
- Remote control**  
 Multiple control modes, using RS232, RS485, network and USB to control the camera.
- Local Storage**  
 Supports local storage functionality, allowing for USB drive recording without needing an NVR.
- 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 NDI® |HX2**  
 Supports the network video transmission technology NDI® |HX2, featuring plug-and-play, low latency, and easy deployment. It supports simultaneous transmission of audio, video, and control signals.
- 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-4K-NDI	UVC61-20X-4K-NDI
<b>Camera Specification</b>		
Sensor	1/1.8 inches, CMOS, Effective Pixels: 8.42MP	1/2.5 inches, CMOS, Effective Pixels: 8.51MP
Lens	12x, f=4.4mm~52.8mm, F1.8~F2.6	20x, f=6.25mm~125mm, F1.58~F3.95
Horizontal FOV	71° ~ 8.2°	60° ~ 3.5°
Vertical FOV	42.7° ~ 4.5°	35.7° ~ 2.0°
Signal System	HDMI: 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94; 3G-SDI: 1080P/60, 1080P/50, 1080P/30, 1080P/29.97, 1080P/59.94, 1080P/25; 1080I/60, 1080I/50, 1080I/59.94; 720P/60, 720P/59.94;	
Digital Zoom	16X	
AI Feature	AI Tracking	
PoE+	Support	
Scanning Mode	Progressive	
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	
<b>Input/Output Interface</b>		
Interfaces	USB 2.0 (type-A), 3G-SDI, HDMI, LAN, Audio-IN/OUT, RS232, RS485; NDI	
Video Output Interfaces	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 USB2.0, Type-A (Support Host or Device mode)	
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	
RESTORE Button	Support	
Power Interface	JEITA type (DC IN 12V)	
<b>Network Specification</b>		
Video Compression Format	H.265 / H.264 / MJPEG	
Image Stream	First Stream, Second Stream	
First Stream Resolution	3840x2160, 1920x1080, 1280x720 etc.	

Second Stream Resolution	720x480, 320x240 etc.
Video Bit Rate	First Stream: 32kbps~51200kbps Second Stream: 32kbps~20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Compression	AAC、G711A
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI®   HX2 (Optional), SRT,TCP/IP, HTTP, RTSP, RTMP(s), Onvif,DHCP,GB/T 28181, Multicast, etc.

## USB Specification

Support operating system	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color space / compression	YUY2 / MJPEG/ H.264/ H.265
Video format	YUY2: Max.1080P5; H.264 AVC: Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max. 2160P30
USB Video	Support
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
Preset Number	255 presets (10 presets by remote controller)

## Other Specification

Input Voltage	DC 12V /PoE+ (802.3at)
Input Current	2A (Max.)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Power Consumption	18W (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:

