

Ultra HD 4K PTZ Camera – UV420

UV420 Ultra HD 4K camera is featured with advanced ISP processing technology and algorithm to provide high quality image and smooth motion. It supports H.264/H.265 encoding which makes motion video more fluent and clear under low bandwidth conditions.



Key Features:

- **4K Ultra HD**
1/2.8 & 1/2.5 inch high quality 4K SONY CMOS sensor; 8.51 megapixel, resolution is up to 4K (3840x2160) and compatible with 1080P, 720P and other resolutions. 4K 60FPS
- **Optical Zoom Lens**
12X and 5X optical zoom lens, with 70° & 80° FOV without distortion.
- **Leading Auto Focus Technology**
Advanced and leading algorithm enables the camera auto focus fast and accurately.
- **Low Noise and High SNR**
Low noise CMOS ensures super high SNR image. The advanced 2D/3D noise reduction technology reduces the noise while ensuring high image clarity.
- **Multiple Video Outputs:**
HDMI, USB3.0 and LAN support audio video output
- **Multiple USB Compression Encoding Format:**
YUY2,MJPEG,H.264,NV12 video encoding formats
- **Multiple Audio Compression Standard**
Audio-in supports AAC, MP3 and G.711A audio compression; 8000,16000,32000,44100,48000 sampling frequency
- **Built-in gravity sensor**
Built-in gravity sensor supports PTZ auto-flip function, easy to install.
- **Multiple network protocol**
Supports ONVIF, GB/T28181, RTSP, RTMP protocols; RTMP push mode, easy to be connected to streaming server (Wowza,FMS); RTP multicast mode; VISCA control protocol
- **Control Interface**
RS422 (compatible with RS485); RS232 in & out; RS232 cascade connection
- **Multiple Control Protocol**
Support VISCA, PELCO-D, PELCO-P protocols; Support automatic identification protocols.
- **Multiple preset**
Up to 255 presets (10 presets for remote control).
- **IR & Wireless Remote Control**
IR remote control (default)
Wireless remote control (optional): 2.4G wireless remote control is not affected by the angle, distance or infrared interference. Far-end-control is also available.
- **Multiple Applications**
Online-education, Lecture Capture, Broadcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc.

Order Model No.:

UV420A-12X Optical Zoom

UV420B-5X Optical Zoom

Technical Specifications:

Model	UV420A	UV420B
Optical Zoom	12X	5X
FOV	Horizontal: 6.55° (tele) ~ 69.4° (wide) vertical: 3.66° (tele) ~ 42.8° (wide)	Horizontal: 26.51° (tele) ~ 79.18° (wide) vertical: 15.29° (tele) ~ 49.22° (wide)
Aperture	F1.6 - F2.8±5%	F2.0 - F2.8±5%
Image Sensor	1/2.8 Inch SONY CMOS Sensor	1/2.5 Inch SONY CMOS Sensor
Effective pixels	8.51M; 16:9	8.51M; 16:9
Video Format	HDMI Video Output Format: 4KP60, 4KP50, 4KP30, 4KP25, 1080P60, 1080P50, 1080i 60, 1080i 50, 1080P30, 1080P25, 720P60, 720P50 USB3.0 Video Output Format: YUY2/NV12: 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30 MJPEG/H.264: 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30 USB3.0 downward compatible USB2.0: YUY2/NV12: 640×360P30, 640×480P30, 320×176P30 MJPEG/H.264: 3840×2160P30, 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30	
Minimum Illumination	0.05Lux (F1.8, AGC ON)	
DNR	2D & 3D DNR	
White Balance	Auto / Manual/ One Push/ Specified Color Temperature	
Focus	Auto / Manual/ One Push	
exposure mode	Auto/ Manual / Shutter Priority / Aperture Priority / Brightness priority	
Aperture	F1.8 - F11, CLOSE	
shutter speed	1/25 - 1/10000	
BLC	OFF/ON	
Dynamic range	OFF/ Dynamic Level Adjustment	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve	
SNR	≥50dB	

Interface Features	
Interfaces	HDMI, LAN(POE), USB3.0 (Type B, compatible with USB2.0) , A-IN, RS232-in & out; RS422 (Compatible with RS485) , Dial switch, DC12V, Power Switch
Video Compression	LAN: H.264, H.265 USB 3.0: MJPG, H264, YUY2, NV12
Audio-in Interface	Double track 3.5mm linear Input
Audio out	HDMI, LAN, USB3.0
Audio Compression	AAC, MP3, G.711A
LAN	10M/100M/1000M adaptive Ethernet port, support POE and audio/video output
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181, VISCA Control Protocols, Remote Upgrade, reboot and reset
Control Interface	RS232-IN, RS232-OUT, RS422 (RS485)

Serial Protocol	VISCA/ Pelco-D / Pelco-P; Baud rate: 115200/38400/9600/4800/2400
USB Communication Protocol	UVC (video) , UAC (audio)
Power Interface	HEC3800 (DC12V)
Power Adapter	In: AC110V-AC220V ; Out: DC12V/2.5A
Input Voltage	DC12V±10%
Input Current	<1A
Power Consumption	<12W

PTZ Parameters	
Pan Rotation	-170°~+170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1°/s~120°/s
Tilt Control Speed	0.1°/s~80°/s
Preset Speed	Pan: 120°/s, Tilt: 80°/s
Preset Number	255 Presets (10 presets by remote control)

Other Parameters	
Storage Temperature	-10°C~+60°C
Storage Humidity	20%~95%
Working Temperature	-10°C~+50°C
Working Humidity	20%~80%
Dimension	181 (L) mm × 115mm (W) × 149mm (H)
Usage	1.15 kg
Storage Temperature	Indoor

Accessories	
Standard	Power supply and adapter,RS232 Cable,USB3.0 Cable, IR remote control, User Manual
Optional	Wall / Ceiling Mount

Dimension: (unit: mm)

