



## UV420B1-AI

### 4K Ultra HD PTZ Camera

- **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) at 30 FPS
- **Optical Zoom:** 12X optical zoom with 70°viewing angle
- **Multiple Control Protocols:** It supports for control protocols of VISCA, PELCO-D, PELCO-P, and able to automatically identify the protocols
- **Low Noise and High SNR:** Low noise CMOS provides the high SNR. The use of leading 2D 3D noise reduction technology further reduce the noise while not comprising the clarity of image
- **Control Jack:** RS422 compatible with RS485, RS232-IN, RS232-OUT, RS232 jack is capable of cascading
- **Multiple Connections:** It supports for HDMI, SDI, USB3.0, wired LAN and PoE.
- **Advanced Auto Focus Technology:** Advanced auto focus technology allows the camera to move fast, accurately, and stably
- **AI Human Detection:** Boasting high speed processor and advanced image processing and analytic algorithm, the camera supports for real-time tracking and zone-tracking

# Technical Specification

## Parameters

- Optical Zoom: 12X
- Viewing Angle: Horizontal: 6.5° (N) ~70.9° (W)
- Iris Value: F1.6 ~ F2.8±5%
- Image Sensor: 1/2.8 Inch SONY CMOS Sensor
- Effective Pixels: 851M, 16: 9
- Digital Zoom: 15X
- Minimum Illumination: 0.5Lux(F1.8, AGC ON)
- DNR: 2D & 3D
- White Balance: Auto/Manual/One-Push/Specified Temperature
- Focus Mode: Auto/Manual/One-push
- Iris: F1.8 ~ F11、CLOSE
- Shutter Speed: 1/25~1/20000
- BLC: On/Off
- Dynamic Range: Off, 1 ~ 8
- Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
- SNR: >50dB
- Video Format: HDMI: 4KP30、4KP25、1080P30、1080P25、1080P29.97;  
SDI: 1080P30、1080P25、1080P29.97;  
USB3.0: Main Stream: YUY2/NV12:1920×1080/1280×720/1024×576/800×600/800×448/640×360/480×270/  
320×180@10/5fps; MJPG/H264: 3840\*2160/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/  
800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;  
Secondary Stream: YUY2/NV12:1280×720/1024×576/800×600/800×448/640×360/640×480×270/  
320×180@30/25/20/15/10/5fps; MJPG/H264: 1920×1080/1600×896/1280×720/1024×576/960×540/800×600/  
800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;

## Interface

- Back Panel: HDMI, SDI, LAN(POE), USB3.0, A-IN, RS232-IN, RS232-OUT, RS422(Compatible with RS485), DC12V power supply
- Video Output : HDMI, SDI, LAN, USB3.0
- Video Compression Formats: LAN: H.264, H.265; USB 3.0: MJPG, H264, YUY2, NV12
- Audio Input Jack: Dual channel 3.5mm linear input
- Audio Output Jack: HDMI, SDI, LAN, USB3.0
- Audio Compression Format: AAC, MP3, G.711A
- Network Port: 10M/100M/1000M adaptive Ethernet, supports for POE, audio/video output
- Network Protocols: RTSP, RTMP, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA, RTMPS, SRT, Support remote upgrade, reboot, reset
- Control Jacks: RS232-IN、RS232-OUT、RS422 compatible with RS485
- Serial Port Protocols: VISCA/Pelco-D/Pelco-P; Baudrate: 115200/38400/9600/4800/2400
- USB Communication Protocols: UVC (Video communication protocol) , UAC (Audio communication protocol)
- Power Interface: HEC3800 power socket(DC12V)
- Power Adapter: Input AC110V~AC220V; OutputDC12V/2.5A
- Voltage: DC12V±10%
- Currency: <1A
- Power Consumption : <12W

## AI Function

- Real-time Tracking: Maximum tracking range is 6-7 meters, allowing speakers to move at speed of 3-4 meters
- Zone Tracking: 4 tracking zones can be set and the zones range need to -170°~+170°in horizontal and -30°~+90°in vertical



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