UV490D2

This dual-lens PTZ camera series has complete functions, excellent performance, and rich interfaces; advanced ISP processing technology and algorithms make the image true-to-life with uniform picture brightness. It supports H.265/H.264 encoding, making the picture smoother and clearer even under low bandwidth.

- **Deliver 4K UHD Image Quality**: Using 8.5 million pixel high-quality SONY CMOS image sensor, the maximum resolution can reach 4K (3840×2160), and the 4K output frame rate can reach up to 30 frames per second.
- **12 Optical Zoom**: 12 X optical zoom with 80.5° angle
- **Leading Auto-Focusing Technology:** The advanced auto-focusing algorithm enables the lens to complete auto-focusing quickly, accurately and stably.
- **Low Noise and High SNR:** Low-noise CMOS effectively guarantees ultra-high signal-to-noise ratio of camera video. Adopt advanced 2D and 3D noise reduction technology to further reduce noise while ensuring image clarity.
- **Multiple Video Output:** It supports HDMI, USB3.0, wired LAN, POE, USB3.0 supports dual stream
- **A variety of audio and video compression standards: I**t supports YUY2, MJPEG, H.264, H.265, NV12 video encoding formats, MJPEG, H.264, H.265 support up to 3840 × 2160 resolution 30 frames / second compression; support AAC , MP3, G.711A audio compression.
- **Audio Input:** It supports AAC, MP3, G.711A audio encoding, AAC, MP3 encoding support 16000, 32000, 44100, 48000 sampling frequencies
- **Built-In Gravity Sensor:** The built-in gravity sensor supports the automatic turning function of the gimbal, which is convenient for engineering installation.
- **Multiple Network Protocols:** support ONVIF, GB/T28181, RTSP, RTMP, VISCA OVER IP, IP VISCA, RTMPS, SRT protocols; support RTMP push mode, easily link streaming media servers (Wowza, FMS); support RTP multicast mode
- **Control Jack：** RS232-IN
- **Multiple Control Protocols:** It support VISCA, PELCO-D, PELCO-P protocols, and support automatic identification protocols.
- **Super Quiet PTZ:** Adopt high-precision stepper motor and precision motor drive controller to ensure the PTZ runs smoothly at low speed and without noise.

- **Low-Power Sleep Function:** It supports low-power sleep/wake-up, and the power consumption during sleep is less than 400mW.
- **Multiple Presets:** Supports up to 255 presets (10 for remote control settings).
- **Various Remote Controls:** Users can choose infrared remote control or wireless remote control according to the environmental conditions used. 2.4G wireless remote control is not affected by angle, distance and infrared interference. Support remote control signal transparent transmission function, which is convenient for back-end devices to use.
- **Auto Framing:** Built in 6 omnidirectional mics arrays, intelligent voice localization algorithm, this camera can track the speaker in real time.
- **Intelligent Voice Positioning And Tracking:** Built-in 6 omnidirectional microphone arrays, intelligent voice positioning algorithm, can locate the position of the speaker in real time, and can set voice tracking on/off

Technical Specification

Parameter/Model	12X
Lens	
Image Sensor	1/2.8inch high quality CMOS sensor
Effective Pixel	8.51M, 16：9
Video Signal	HDMI： 4KP30、4KP25、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; Sub Stream：YUY2/NV12: 1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@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;
Close-up Lens	12X
Viewing Angle	H：7.6°（N）～80.5°（W）
Iris Value	F1.8 ～ F3.6

Digital Zoom	15X
Minimum Illumination	0.5Lux(F1.8, AGC ON)
DNR	2D & 3D
White Balance	Auto/Manual/One-Key White Balance/Specified Color Temperature
Focus Mode	Auto/Manual/One key focus
Exposure Mode	Auto, Manual, Shutter Priority, Aperture Priority, Brightness Priority
Iris	F1.8 ～ F3.6, CLOSE
Shutter Speed	1/25～1/20000
BLC	On/Off
Dynamic Range	Off, 1 ～ 8
Video Adjustment	Brightness, Hue, Saturation, Contrast, Sharpness, Black and White Mode, Gamma Curve
SNR	>50dB
Panoramic Lens	Fixed Lens
FOV	110.2°\101.8°\69.5°（D\H\V）
Iris	F2.0±5%
Focus	F=1.89mm

Interface	
Back Panel	HDMI, LAN (support POE), USB3.0, A-IN, RS232-IN, DC12V power supply, power switch
Video Output	HDMI, LAN, USB3.0
Video Compression Format	LAN：H.264、H.265 USB 3.0：MJPG、H264、YUY2、NV12
Audio Input	Dual channel 3.5mm linear input
Audio Output	HDMI, LAN, USB3.0
Audio Compression Format	AAC, MP3, G.711A
LAN Port	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA, RTMPS, SRT, support remote upgrade, remote restart, remote reset
Control	RS232-IN

Serial Port Communication Protocols	VISCA/Pelco-D/Pelco-P；Baud Rate: 115200/38400/9600/4800/2400
USB communication Protocols	UVC（video communication protocol，UAC（audio communication protocol）
Power Supply	HEC3800 power socket (DC12V)
Power Adapter	Input: AC110V~AC220V ； Output: DC12V/2.5A
Input Voltage	DC12V±10%
Input Current	<1A
Power Consumption	<12W

PTZ	
Pan	-110°～+110°
Tilt	-30°～+30°
Pan Speed	0.1°/s～100°/s
Tilt Speed	0.1°/s～70°/s
Preset Speed	Pan：78.8°/s，Tilt：31.7°/s
Preset Quantity	Users can set up to 255 preset positions (10 remote controls)

Others	
Storage Temperature	-10℃～+60℃
Storage Humidity	20%～95%
Working Temperature	-10℃～+50℃
Working Humidity	20%～80%
Dimension	220（L）mm×144mm（W）×159mm（D）
Weight(Approx.)	1.7kg
Environment	Indoors

Accessory	
Standard Accessory	Power adapter, RS232 control cable, USB3.0 cable, remote control, user manual
Optional Accessory	Mount brackets

AI Function

Auto Framing	Built-in high-speed processor and face detection algorithm, it can automatically detect participants and provide optimal framing
Speaker Tracking	Built-in 6 omnidirectional microphone arrays, intelligent sound source localization algorithm, can locate the speaker's position in real time.

Dimension: