

4KP10xU3AIT

4K PTZ
10x Optical Zoom
USB 3.0
AI Tracking Camera

- **4K UHD Resolution:** 8.42 million pixel high-quality SONY CMOS image sensor, the maximum resolution can reach 4K (3840×2160) at 30 frames per second. True-to-life Ultra HD video that vividly shows the expressions and movements of characters, delivering image quality with superb clarity and resolution.
- **Optical Zoom Lens:** 10X optical zoom 67.5° wide-angle lens.
- **Auto Focus Technology:** Fast, accurate and stable auto focusing technology.
- **AI Human Tracking:** Equipped with a high-speed processor and utilizing exclusive advanced image processing and analysis algorithms, users can choose between real-time tracking and area tracking according to the usage environment.
- **Low Noise and High SNR:** Super high SNR image is achieved with low noise CMOS. Advanced 2D/3D noise reduction technology further reduces the noise while ensuring high image clarity.
- **Built in Gravity Sensor:** Built in gravity sensor, support gimbal automatic flip function, convenient for engineering installation.
- **Multi-functional USB2.0 interface:** According to user requirements, it can be configured as a U-disk storage mode, or it can be used to connect a USB omnidirectional microphone or a USB Bluetooth Dongle omnidirectional microphone.
- **Multiple Video Output Methods**: Support HDMI USB3.0 wired LAN Port; POE Optional, The standard product is not compatible, USB3.0 support dual streams.
- **Multiple Network Protocol:** Support ONVIF, GB/T28181, RTSP, RTMP, VISCA OVER IPIP VISCA, RTMPS, SRT protocols; Support RTMP push mode, easy to be connected to streaming server (Wowza, FMS); Support RTP multicast mode
- **Multiple Control Protocol:** Support VISCA, PELCO-D, PELCO-P protocols; Support automatic identification protocols.
- **Super Silent PTZ:** Utilizing high-precision stepper motors and a precision motor drive controller to ensure smooth operation at low speeds and minimal noise.
- **Low Power Sleep Mode:** Support low power sleep/awake mode - power consumption less than 400mW.
- **Multiple Presets:** Up to 255 presets (10 presets via infrared remote control).

Versatile Applications: Suitable for remote education, teaching recordings, conference systems, remote training, telemedicine, courtroom, emergency command systems, etc.

Technical Specification	
Parameter	10x Zoom
Image Sensor	1 / 2.8 inch high quality CMOS sensor
Effective Pixel	842M, 16:9
Video Signal	HDMI: 4KP30, 4KP25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94 LAN: Main Stream: 1920×1080 / 1280×720 / 640×480 @ 30/25/20/15/10/5 fps; Sub Stream: 1280×720 / 640×360 / 640×480 / 320×240 / 320×180 @ 30/25/20/15/10/5fps; The USB 3.0 output supports video formats including: Main Stream: YUY2/NV12: 1920×1080 / 1280×720 / 1024×576 / 800×600 / 800×448 / 640×360 / 640×480 / 480×270 / 320 ×180 @ 30/25/20/15/10/5 fps; MJPG/H264: 3840×2160 / 2560×1440 / 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: 1920×1080 / 1280×720 / 1024×576 / 800×600 / 800×448 / 640×360 /640×480 / 480×270 / 320×180 @ 25/20/15/10/5fps; MJPG/H264: 3840×2160 / 2560×1440 / 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;
Optical Zoom	10x
Viewing Angle	H: 7.6° (N) ~ 67.5° (W)
Field Length	4.32~40.91 mm±5%
Iris Value	F1.76 ~ F3.0 ±5%
Digital Zoom	16x
Minimum Illumination	0.5 Lux (F1.8, AGC ON)
DNR	2D & 3D
White Balance	Auto/Manual/One-push/Specified Color Temperature
Focus Mode	Auto/Manual/One-push
Exposure Mode	Auto, Manual, Shutter Priority, Iris Priority, Brightness Priority
Aperture	F1.8 ~ F11, CLOSE
Shutter Speed	1/25 ~ 1/20000
BLC	On/Off
Dynamic Range	Off, 1~8
Video Adjustment	Brightness, Contrast, Saturation, W&B Mode, Horizontal flip, Vertical flip, Digital Zoom, Minimum Illumination
SNR	>50dB

AI Function	
Real-time Tracking	The longest tracking distance can reach 6 to 7 meters, which can support the speaker to walk at a speed of 3 to 4 mph
Zone Tracking	Support setting 4 tracking areas, support horizontal -125° ~ + 125°, vertical -30° ~ + 30°

Interface Function Performance	
Interface	HDMI, LAN (Support POE- Optional), USB3.0, USB2.0 IN, RS232-IN, DC12V Power Supply
Video Output Interface	HDMI, LAN, USB3.0
Video Compression Formats	LAN: H.264, H.265 USB 3.0: MJPG, H264, YUY2, NV12
Network Jack	100M 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 Jack	RS232-IN
Serial Port Communication Protocols	VISCA/Pelco-D/Pelco-P; Support Baud Rate 115200 / 38400 / 9600 / 4800 / 2400
USB	UVC (Video Communication Protocols) UAC (Audio Communication Protocols)
Power Supply	HEC3800 Power Socket (DC12V)
Power Adapter	Input: AC110V~AC220V | Output: DC12V/2A
Input Voltage	DC12V±10%
Input Current	<1.2A
Power Consumption	<13.3W

PTZ Parameter	
Pan Move	-125° ~ +125°
Tilt Move	-30° ~ +30°
Pan Speed	0.1°/s ~ 65°/s
Tilt Speed	0.1°/s ~ 35°/s
Preset Speed	Pan: 65°/s, Tilt: 35°/s
Preset Quantity	Up to 255 preset (10 via remote control)

Other Parameter	
Storage Temperature	-10 °C ~ +70°C
Storage Humidity	20% ~ 95%
Working Temperature	-10 °C ~ +50 °C
Working Humidity	20% ~ 80%
Dimension	151.64mm x 154.5mm x 131.25mm
Weight	1.0kg
Environment	Indoors

Accessory	
Supplied Accessory	Power Supply, RS232 Control Cable, USB3.0 Cable, IR Remote Control, User Manual, Warranty Card
Optional Accessory	Ceiling / Wall Mount (Extra Cost)







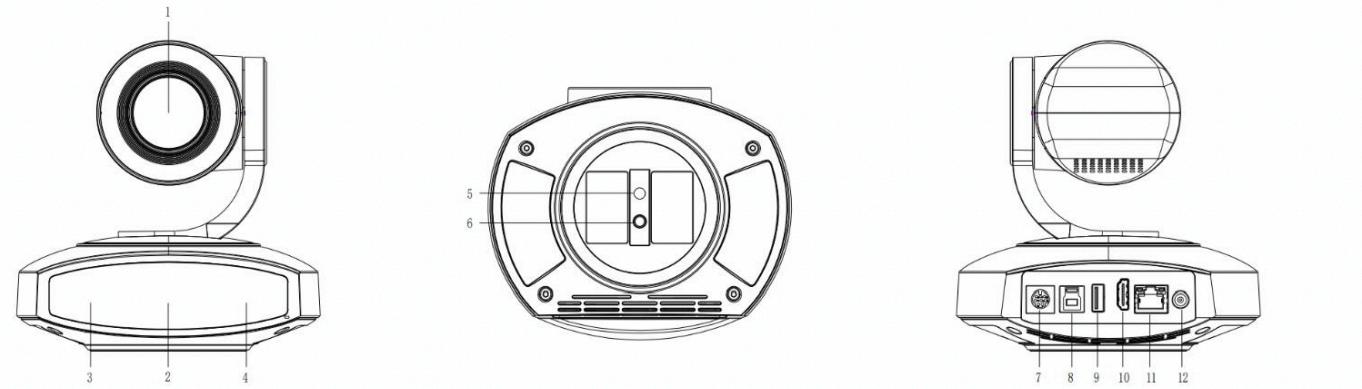


Figure1-1 Interface

Interface:

1. Lens	5. Fixation Hole for Tripod	9. USB2.0 host in
2. Power Indicator	6. Screw Hole for Tripod	10. HDMI Output
3. IR Receiver	7. RS232	11. Network Interface
4. IR Receiver	8. USB3.0 Output	12. Power Input Socket（DC12V）

