



PTZ 4K Camera

Technical Specification



This series camera has perfect functions, superior performance and rich video output interfaces; Featuring with advanced ISP processing algorithms, offering vivid and high resolution video with a strong sense of depth and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video more fluent and clear under low bandwidth conditions.

- **4K UHD Resolution:** 8.51M megapixel high quality SONY CMOS sensor. Resolution is up to 4K with frame rate up to 60fps.
- **Optical Zoom Lens:** 12X optical zoom lens and 70° wide angle lens, 5X optical zoom lens and 80° wide angle lens for options.
- **Leading Auto Focus Technology:** Fast, accurate and stable auto focusing technology.
- **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.
- **Multiple video output interfaces:** HDMI, USB3.0, LAN.
- **Multiple Audio/Video Compression Standards:** USB3.0 interface supports MJPEG, H264, YUY2, NV12, H265; support AAC, MP3 and G.711A audio compression, 8000, 16000, 32000, 44100, 48000 sampling frequency.
- **Multiple Network Protocol:** Support ONVIF, GB/T28181, RTSP, RTMP protocols; Support RTMP push mode, easy to be connected to streaming server (Wowza, FMS); Support RTP multicast mode; Support network full command VISCA control protocol.
- **Control Interface:** RS422 input(compatible with RS485), RS232 input/output, RS232 (cascade connection)
- **Multiple Control Protocol:** Support VISCA, PELCO-D, PELCO-P protocols; Support automatic identification protocols
- **Built-in gravity sensor:** Built-in gravity sensor, Support PTZ automatic flip function, convenient for installation.
- **Quiet Pan / Tilt Movement:** With high accuracy step driving motor, camera can pan / tilt extremely quiet and smooth.
- **Multiple presets:** Up to 255 presets (10 presets via remote control).
- **IR Remote Control:** Users can choose IR remote control according to different conditions.
- **Multiple Application:** Online-education, Lecture Capture, Webcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc



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Camera Parameter	
Optical Zoom	12X
View Angle	Parallel: 6.55°(N)~69.4°(W) Vertical: 3.66°(N)~42.8°(W)
AV	F1.6 ~ F2.8±5%
Sensor	1/2.8 inch SONY CMOS sensor
Effective Pixels	8.51M megapixel 16:9
Video Format	HDMI video format 4KP60,4KP50,4KP30,4KP25,1080P60,1080P50,1080I60,1080I50, 1080P30,1080P25,720P60,720P50 USB3.0 interface video format YUY2/NV12: 1920×1080P30,1280×720P30,960×540P30,640×360P30, 640×480P30,320×176P30 MJPEG/H.264/H.265: 3840×2160P30,1920×1080P30,1280×720P30, 1024×576P30,960×540P30,800×448P30,640×360P30,640×480P30,320×176P30 USB3.0 is compatible with USB2.0 video format YUY2/NV12: 640×360P30,640×480P30,320×176P30 MJPEG/H.264/H.265: 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/ Specify color temperature
Focus	Auto/Manual/One Push Focus
Exposure Mode	Auto/Manual/Shutter priority/Aperture priority/brightness priority
Aperture	F1.8 ~ F11 CLOSE
Shutter Speed	1/25~1/10000
BLC	ON/OFF
WDR	OFF/ Dynamic level adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
SNR	≥50dB

Input/Output Interface	
Video Interfaces	HDMI,USB3.0 (Type B compatible with USB2.0) ,LAN(POE),A-IN,RS232-IN, RS232-OUT,RS422 (compatible with RS485) , Rotary DIP switch, DC12V Power Supply, Power Switch
Video Compression Format	LAN Interface: H.265,H.264 USB 3.0 Interface: YUY2,MJPEG,H.264,H265,NV12
Audio Input Interface	Double track 3.5mm linear input
Audio Output Interface	HDMI,LAN,USB3.0
Audio Compression Format	AAC,MP3,G.711A
Network Interface	10M/100M/1000M Adaptive Ethernet port, support POE power supply, support audio and video output
Network Protocols	RTSP,RTMP,ONVIF,GB/T28181; Network VISCA control protocol; Support remote upgrade, reboot and reset
Control Interface	RS232-IN,RS232-OUT,RS422 compatible with RS485
Serial Communication protocol	VISCA/Pelco-D/Pelco-P Baud Rate: 115200/38400/9600/4800/2400

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USB Communication Protocol	UVC (Video) , UAC (Audio)
Power Interface	HEC3800 outlet (DC12V)
Supply Adapter	AC110V-AC220V to DC12V/2.5A
Input Voltage	DC12V±10%
Input Current	<1A
Power Consumption	<12W

PTZ Parameter	
Pan Rotation	-170°~+170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1°/s~100°/s
Tilt Control Speed	0.1°/s~45°/s
Preset Speed	Pan: 100°/s, Tilt: 45°/s
Preset Number	255 presets (10 presets via remote control)

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

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