

UV430E



This is a brand new UHD 4K camera, including 3 lenses, 12X optical zoom 80.4° wide-angle lens (UV430E0), 25X optical zoom 59.2° wide-angle lens (UV430E2), and 31X optical zoom 59° wide-angle lens (UV430E3). It has complete functions, excellent performance and rich interfaces. Boasting advanced ISP processing technology and algorithm, UV430 series cameras deliver the vivid image and uniform picture brightness.

- **4K UHD Resolution:** SONY CMOS sensor. Resolution is up to 4K with frame rate up to 60fps.
- **Dual Stream Output:** USB support the main stream and sub stream output at the same time, and can meet the needs of near-end and far-end.
- **Optical Zoom Lens:** 12X optical zoom 80.4° wide-angle lens, 25X optical zoom 59.2° wide-angle lens, and 31X optical zoom 59° wide-angle lens
- **Interfaces:** Support HDMI, SDI, USB 2.0, LAN, and output 4K audio and video at the same time.
- **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 Audio/Video Compression Standards:** LAN interface supports H.264/H.265 video compression, USB2.0 interface supports MJPG, H264, YUY2, NV12, H265;
- **Audio Input Interface:** 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.
- **Multiple Presets:** Up to 255 presets (10 presets via remote control).
- **AI Human Detection:** Built in high speed processor and advanced image processing and analysis algorithm, and real-time tracking and zone tracking modes are available.
- **Multiple Application:** Online-education, Lecture Capture, Webcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc.

Technical Specification

Table1-1 Camera Lens Parameter

Camera Parameter			
Model	UV430 E0	UV430 E2	UV430 E3
Optical Zoom	12X	25X	31X
Focal Length	f=3.85 mm~ 43.06 mm ±5%	f=7.1 mm~ 171.95 mm ±5%	f=6.91 mm~ 214.64 mm ±5%
Viewing Angle	Horizontal: 7.59° (N) ~ 80.4° (W) Vertical: 4.6° (N) ~ 50.0°	Horizontal: 2.5° (N) ~ 59.2° (W) Vertical: 1.4° (N) ~ 34.6° (W)	Horizontal: 1.98° (N) ~ 59° (W) Vertical: 1.12° (N) ~ 34.14° (W)

	(W)		
Iris Value	F1.8 ~ F3.56±5%	F1.61 ~ F5.19±5%	F1.35 ~ F4.6±5%
Image Sensor	1/2.5 inch SONY CMOS sensor	1/1.8 inch SONY CMOS sensor	
Effective Pixels	8.29M megapixel 16: 9		
Video Format	<p>HDMI:</p> <p>3840*2160P60/50/25/59.94/29.97;1080P60/50/ 30/25/59.94/29.97;1080I60/50/59.94; 720P60/50/59.94;</p> <p>SDI:</p> <p>1080P60/50/30/25/59.94/29.97;1080I60/50/59.94; 720P60/50/59.94</p> <p>USB2.0:</p> <p>MJPG: 3840*2160/1920*1080/1280*720 /1024*768 /1024*576/800*600/720*576/720*480/704*576/640*4 80 /640*360 /352*288/320*240P30;</p> <p>H264: 3840*2160/1920*1080/1280*720 /1024*768 /1024*576/800*600/720*576/720*480/704*576/640*4 80 /640*360 /352*288/320*240P30;</p> <p>H265: 1920*1080/1280*720 /1024*768 /1024*576/800*600/720*576/720*480/704*576/640*4 80 /640*360 /352*288/320*240P30;</p> <p>YUY2: 800*448 /720*480P25; 640*360 /432*240P30</p> <p>NV12: 800*448P25; 640*480 /640*360 /432*240P30</p>		
Minimum	0.05Lux(F1.8, AGC ON)		

Illumination	
DNR	3D DNR
White Balance	Auto / Manual/ One Push/ Specified 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

Table1-2 AI Function

AI Function	
Real-time Tracking Mode	The longest tracking distance can reach 6-7 meters, which can support the speaker to walk at a speed of 5-6 mph
Zone Tracking Mode	4 tracking zones are available, which can be set within -110° ~ +110° in horizontal and 30°~+30°(430E0) in vertical or 27°~ +27°(430E2,430E3) in vertical .

Table1-3 Interface Parameter

Interface Parameter	
Video Interfaces	HDMI, SDI, LAN(Support POE), USB2.0, A-IN, RS232-IN, RS232-OUT, RS422 (Compatible with RS 485) , Rotary DIP

	switch, DC12V Power Supply, Power Switch
Video Compression Format	LAN: H.264, H.265 USB 2.0: MJPG, H264, H.265, YUY2, NV12
Audio Input	Double track 3.5mm linear input;
Audio Output	HDMI, LAN, USB2.0
Audio Compression Format	AAC
LAN Jack	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
Network Protocols	RTSP/RTMP,ONVIF,GBT28181 Support network VISCA control protocol; Support remote upgrade, remote restart, remote reset
Control Jacks	RS232-IN,RS232-OUT, RS422 compatible with RS485
Serial Port Communication Protocols	VISCA/Pelco-D/Pelco-P; Support Baudrate: 115200/38400/9600/4800/2400
USB Communication Protocol	UVC (Video Communication Protocol) , UAC (Audio Communication Protocol)
Power Supply	HEC3800 Outlet (DC12V)
Power Adapter	AC110V~AC220V to DC12V/2.5A
Input Voltage	DC12V±10%
Input	<1A
Consumption	<12W

Table1-4 PTZ Parameter

PTZ Parameter

Pan Move	-110° ~+110°
Tilt Move	-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	Up to 255 preset (10 via remote control)

Table1-5 Other Parameter

Other Parameter	
Storage Temperature	-10°C ~+60°C
Storage Humidity	20%~95%
Working Temperature	-10°C ~+50°C
Working Humidity	20%~80%
Dimension	220(L)mm*144mm(W)*159mm(H)
Weight	1.7kg
Environment	Indoors

Table1-6 Accessory Parameter

Accessory	
Supplied Accessory	Power Supply, RS232 Control Cable, USB2.0 Cable(U3 model), IR Remote Control, User Manual, Warranty Card
Optional Accessory	Ceiling / Wall Mount (Extra Cost)

Dimension

