

## SV-EPTZ430V

### Tracking Camera

SV-EPTZ430V is a UHD 4K camera featuring a 12X optical zoom 80.4° wide-angle lens, a 25X optical zoom 59.2° wide-angle lens, and a 31X optical zoom 59° wide-angle lens. It offers perfect functions, excellent performance, and rich interfaces. The advanced ISP processing technology and algorithms deliver vivid and lifelike image effects, uniform screen brightness, strong light and color layering, high definition, and excellent color reproduction.

- 4K ultra-high-definition: Using SONY high-quality CMOS image sensor, the highest resolution supports 4K@60fps, and the output frame rate is up to 60 frames per second; it presents clear and realistic ultra-high-definition video, vividly showing the expressions and actions of characters, and can provide super-class The clarity and resolution of the image quality.
- Dual-stream: USB can support main stream and sub-stream output at the same time, which can meet the needs of near-end and far-end at the same time;
- Optical zoom lens: 12X optical zoom 80.4° wide-angle lens, 25X optical zoom 59.2° wide-angle lens, 31X optical zoom 59° wide-angle lens.
- Rich and perfect interface: support HDMI2.0, SDI, USB 2.0, LAN, HDMI, USB, LAN can output 4K audio and video at the same time.
- Auto-focus technology: Advanced auto-focus algorithm enables the lens to complete auto-focus quickly, accurately and stably.
- Low noise and high signal-to-noise ratio: The low-noise CMOS effectively guarantees the ultra-high signal-to-noise ratio of the picture. Adopt advanced 3D noise reduction technology to further reduce noise while ensuring image clarity.
- Various audio and video compression standards: LAN interface supports H.265/H.264 video compression; USB2.0 interface supports MJPG, H264, YUY2, NV12, H265
- Audio input interface: support 32000, 44100, 48000 sampling frequency
- Various network protocols: support ONVIF, GB/T28181, RTSP, RTMP protocols; support RTMP push mode, easily link streaming media servers (Wowza, FMS); support RTP multicast mode, support network full command VISCA control protocol.
- Control interface: RS422 (compatible with RS485) output, RS232 input/output; RS232 supports cascading, which is convenient for engineering installation and use.
- Various control protocols: support VISCA, PELCO-D, PELCO-P protocols, and support automatic identification protocols.
- Multi-preset position: Support up to 255 preset positions (10 are set by the remote control).
- AI humanoid tracking, built-in high-speed processor and exclusive advanced image processing and analysis algorithm, users can choose real-time tracking and area tracking according to the use environment.
- Multiple application scenarios: conference, education, medical care, government affairs, cloud video, collaborative office, multimedia integration, emergency command, broadcasting, judicial, public security, military and other system applications.



### Technical Parameters

#### Camera and Lens

Item	Specification
<b>Image sensor</b>	1/2.5 inch SONY CMOS image sensor 1/1.8 inch SONY CMOS image sensor
<b>Effective pixels</b>	8.29M effective pixels 16:9
<b>Video signal</b>	3840*2160P60/50/25/59.94/29.97;1080P60/50/30/25/59.94/29.97;1080I60/50/59.94;720P60/50/59.94;
<b>HDMI output supports video formats</b>	1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/59.94
<b>SDI output supports video formats</b>	MJPG: 3840*2160/1920*1080/1280*720/1024*768 /1024*576/800*600/720*576/720*480/704*576/640*480 /640*360 /352*288/320*240P30; H264: 3840*2160/1920*1080/1280*720/1024*768 /1024*576/800*600/720*576/720*480/704*576/640*480 /640*360 /352*288/320*240P30; YUY2: 800*448 /720*480P25; 640*360 /432*240P30 NV12: 800*448P25; 640*480 /640*360 /432*240P30
<b>USB2.0 output supports video formats</b>	
<b>Minimum illumination</b>	0.05Lux (F1.8, AGC ON)
<b>Digital noise reduction</b>	3D digital noise reduction
<b>White balance mode</b>	Auto/manual/one key white balance/designated color temperature
<b>Focus mode</b>	automatic/manual/one key focus
<b>Exposure Mode</b>	Auto, Manual, Shutter Priority, Aperture Priority, Brightness Priority
<b>Aperture parameters</b>	F1.8 ~ F11, CLOSE
<b>Shutter speed</b>	1/25 ~ 1/10000
<b>Backlight Compensation</b>	On/Off
<b>Dynamic Range</b>	Off/Dynamic Level Adjustment
<b>Video adjustment</b>	Brightness, hue, saturation, contrast, sharpness, black and white mode
<b>Signal-to-noise ratio</b>	≥50dB

#### AI function performance parameters

Item	Specification
<b>Real-time tracking</b>	The farthest tracking distance can reach 6-7 m and can support the speaker to walk at a speed 1.3-1.7 meters per second
<b>Area tracking Supports setting</b>	4 tracking areas, supports setting areas within ~ +110° horizontally and -27° ~ +27° vertically

## Interface function performance

Item	Specification
<b>Product interface</b>	HDMI, SDI, LAN (support POE), USB2.0, A-IN, RS232-IN, RS232-OUT, RS422 (compatible with RS 485), rotary dial, DC12V power supply, power switch
<b>Video compression format</b>	LAN interface support: H.264, H.265
	USB 2.0 interface support: MJPG, H264, H.265, YUY2, NV12
	Audio input interface Dual-channel 3.5mm linear input
	Audio output interface HDMI, LAN, SDI, USB2.0
	Audio compression format AAC
<b>Network interface</b>	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
<b>Network protocol</b>	RTSP, RTMP, ONVIF, GB/T28181; support network VISCA control protocol;
<b>Control interface</b>	RS232-IN, RS232-OUT, RS422 compatible with RS485
<b>Serial communication protocol</b>	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
<b>USB communication protocol</b>	UVC (video communication protocol), UAC (audio communication protocol)
<b>Power interface</b>	HEC3800 power socket (DC12V)
<b>Power Adapter</b>	Input AC110V~AC220V; Output DC12V/2.5A
<b>Input voltage</b>	DC12V±10%

## PTZ parameters

Item	Specification
<b>Horizontal rotation</b>	-110° ~ +110°
<b>Pitch rotation</b>	-30° ~ +30° -27° ~ +27°
<b>Horizontal control speed</b>	0.1°/s ~ 100°/s
<b>Pitch control speed</b>	0.1°/s ~ 70°/s
<b>Preset Speed Pan</b>	78.8°/s, Tilt: 31.7°/s
<b>The number of preset positions</b>	The user can set up to 255 preset positions (10 on remote control)

## Accessories

Item	Specification
<b>Standard accessories</b>	Power adapter, RS232 control line, USB2.0 connection line, remote control, manual, warranty card & certificate
<b>Installation accessories</b>	Ceiling Mounting Bracket, Wall Mounting Bracket

## Other parameters

Item	Specification
<b>Storage temperature</b>	-10°C ~ +60°C
<b>Storage humidity</b>	20% ~ 95%
<b>Working temperature</b>	-10°C ~ +50°C
<b>Working humidity</b>	20% ~ 80%
<b>Dimensions</b>	220mm(L)×144mm(W)×159mm(H)
<b>Weight (approx.)</b>	about 1.7kg
<b>Use environment</b>	indoor

## Model Selection

Model #	SV-EPTZ430V-12x	SV-EPTZ430V-25x	SV-EPTZ430V-31x
<b>Optical zoom</b>	12x	25x	31x
<b>Focal length range f</b>	3.85 mm ~ 43.06 mm ±5%	7.1 mm ~ 171.95 mm	6.91 mm ~ 214.64 mm ±5%
<b>Field of view Horizontal</b>	7.59° ~ 80.4°	2.5° ~ 59.2°	1.98° ~ 59°
<b>Field of view Vertical</b>	4.6° ~ 50.0°	1.4° ~ 34.6°	1.12° ~ 34.14°
<b>Aperture factor</b>	F1.8 ~ F3.56±5%	F1.61 ~ F5.19±5%	F1.35 ~ F4.6±5%

## Dimension (Unit: mm)

