

EV-PTZ-4K-12G

4K 12G-SDI/HDMI PTZ Camera

EvertzAV is a division within Evertz Microsystems exclusively focused on offering the most complete end-to-end AV distribution and visualization solutions for the professional AV industry.



Key Features

- 4K, 1080p, and 720p resolution support
- 12G-SDI and HDMI video outputs
- Professional 1/1.8" Sony® sensor (with 30x optical zoom)
- AI-enabled facial recognition autofocus system
- FreeD protocol support for live VR/AR production
- RTSP, RTMP, RTMPS, MPEG-TS, and SRT protocol support
- 802.3bt Type 3 PoE++ support
- High-speed, smooth, and judder-free pan and tilt controls up to 300° per second



FreeD Support – Live VR/AR Video Production

The EV-PTZ-4K-12G supports the increasingly popular FreeD protocol, which outputs the camera's positional data over IP in real-time. This enables users to work with state-of-the-art Virtual Reality (VR) and Augmented Reality (AR) sets without the need for additional sensors.

Advanced Facial Recognition Autofocus System

The EV-PTZ-4K-12G is also equipped with a state-of-the-art facial recognition autofocus system. As such, the EV-PTZ-4K-12G can intelligently identify human faces and automatically detect the eyes and mouth. This enables the camera to keep the subject in sharp focus all the time.

4K 12G-SDI/HDMI PTZ Camera

EvertzAV's EV-PTZ-4K-12G is an ultra-high-quality proAV 4K IP pan, tilt, and zoom camera. Paired with a low distortion professional zoom lens, the camera's large (1/1.8") CMOS sensor produces superb 4K and HD results. Its excellent color reproduction and 12G-SDI and HDMI video outputs mean it's a great choice for productions where image quality is of the highest importance. The EV-PTZ-4K-12G is a practical solution for broadcasting, video production, lecture recording, and live events.

Easy to Operate and High-Precision Camera Controls

With a top-mounted tally light, the EV-PTZ-4K-12G notifies the crew and talent which camera is currently in use. It provides clear communication and is especially useful in multi-camera productions and broadcast studios. With high-precision motor control and an advanced transmission mechanism, the EV-PTZ-4K-12G achieves high-speed pan and tilt at up to 300° per second. Camera movement is smooth and judder-free, even at low speeds.

EV-PTZ-4K-12G Front



EV-PTZ-4K-12G Rear



av.evertz.com

Contents Subject to Change
Rev. 02

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4K 12G-SDI/HDMI PTZ Camera

Specifications

Image Sensor	1/1.8" 9.17 MP CMOS
Video Format	2160p: 59.94 / 50 / 29.97 / 25
	1080p: 59.94 / 50 / 29.97 / 25
	1080i: 59.94 / 50
	720p: 59.94 / 50 / 29.97 / 25
Video Output (HD) Interface	12G-SDI / HDMI 2.0 / Ethernet / USB 3.0
Optical Zoom / Digital Zoom	30x / 12x
Viewing Angle	63° (H) 35.4° (V) 72.3° (D)
Aperture	F1.6 to F4.8
Focal Length	6.5mm to 202mm
Shutter Speed	1/1 to 1/10,000 sec
Minimum Object Distance	1.5m (Wide/Tele)
Video S/N Ratio	> 50dB
Minimum Illumination	0.05 lux (F1.6, 50IRE, 30fps)
Focus System	Auto / Manual / Smart AF
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual
WDR	Yes
3D NR	Yes
Image Flip	Yes
Color Space	Standard / BT.2020 / REC.709
AR/VR Systems	FreeD
Tally Light	Yes
Panning Angle	+170° to -170°
Panning Speed	300°/sec
Tilting Angle	+90° to -30°
Tilting Speed	300°/sec
Preset Positions	256
HDMI / 12G-SDI Output	2160p59.94
IP Streaming Protocol	RTSP / RTMP/RTMPS / MPEG-TS / SRT
IP Stream Encoder/Decoder	HEVC (H.265) / H.264 Note: Applicable to all IP streaming protocols except RTMP/RTMPS (H.264 only)
IP Stream Output	HEVC 4K 59.94fps / H.264 1080p 59.94fps / H.264 640x360 29.97fps
Number of IP Streams	Up to 3
USB Compression	H.264 / MJPEG
USB Output	H.264 4K30fps / MJPEG 1080p30
PoE	PoE++ (IEEE802.3bt)
Audio Input	Line In / MIC In, Phone Jack 3.5mm x1
Audio Output	Ethernet / 12G-SDI / HDMI 2.0
Audio Compression Format	G.711
Camera Control Interface	RS-232 / RS-422 / Ethernet / USB 3.0 / Remote
Camera Control Protocol	VISCA / VISCAIP / PELCO D / ONVIF / UVC 1.1 / UAC
Power Input	DC 12V +/- 20% or PoE++
Power Consumption	PoE: 27.5W / DC In: 27W
Dimension	9.2in x 7.4in x 7.4in (232mm x 188mm x 189mm)
Weight	6.6 lbs (3 kg)

Ordering Information

EV-PTZ-4K-12G	4K IP PTZ camera with 12G-SDI and HDMI video outputs, analog audio, USB 3.0, RS-232, RS-422, and PoE++
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