EV-PTZ-4K-3 (Hardware Revision B)
4K HDBaseT 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
- HDBaseT™, HDMI™, and HD-SDI video outputs
- 20x optical zoom (up to 30x/40x in 4K/1080p with SRZ technology)
- 70.2 degrees wide viewing angle
- ±350 degrees continuous pan, ±120 degrees continuous tilt
- Simple single cable installation, unit can be remotely powered and controlled using HDBaseT

Space/Application Versatility

The EV-PTZ-4K-3 4K resolution pan/tilt/zoom camera is perfect for any application from small to large. The 4K PTZ camera can be used in/for a multitude of spaces/applications ranging from corporate spaces, higher education environments, house of worship, and government applications.

Advanced Features and Functionality

With 4K resolution support (up to 3840x2160p @ 29.97 fps) via HDBaseT and HDMI outputs, along with 1080p support via HD-SDI, the EV-PTZ-4K-3 4K camera integrates directly with EvertzAV's MMA-10G range of products. The 4K PTZ camera provides advanced features such as a 20x optical zoom, a 70.2 degree viewing angle, 350/120 degrees of continuous pan/tilt, a 6-step noise reduction system, image flipping capabilities for ceiling mount applications, and much more. The 4K PTZ camera can be installed anywhere and using the EV-RS4K-1 HDBaseT receiver the unit can be remotely powered/controlled and video/audio received back.

High-Quality Design

The EV-PTZ-4K-3 4K camera was designed with precision, speed, and silence in mind. The main body of the 4K PTZ camera is made from a ultra-light magnesium alloy, which reduces interference and guarantees the highest in picture quality. Internally, the 4K PTZ camera's pan/tilt mechanism uses a high-precision stepper motor that guarantees extremely smooth and quiet pan and tilt movements. The EV-PTZ-4K-3 4K camera has a clean aesthetic look and can be mounted to any surface using its flexible mounting options.

Optional One-Cable Solution HDBaseT Receiver

Available as an optional accessory, the EV-RS4K-1 is an HDBaseT receiver for the EV-PTZ-4K-3 that provides HDBaseT 4K video transmission over extremely long distances. In addition to 4K video, the EV-RS4K-1 allows audio, IP/IR/RS232/RS422/RS485 control signals, and camera power to be delivered using a single Cat6 cable. The EV-RS4K-1 HDBaseT receiver can instantly open up a whole new world of use case possibilities for the EV-PTZ-4K-3 4K PTZ camera.

EV-PTZ-4K-3 Front | EV-PTZ-4K-3 Rear | EV-RS4K-1 Front | EV-RS4K-1 Rear

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EV-PTZ-4K-3 Specifications

Image Sensor	1/2.5" CMOS 8.51MP
Lens	Optical zoom 20x. Up to 30x in 4K and 40x in 1080p with Super Resolution Zoom (SRZ) feature
Digital Zoom	12x
Horizontal Viewing Angle	70.2˚(W) ~ 4.1˚(T)
Aperture	F2.0(W) ~ F3.8(T)
Minimum Illumination	0.4lux (1/30s, 50%, High Sensitivity Mode On), 1.6lux (1/30s, 50%, High Sensitivity Mode Off), 0.06lux(1/4s(1/3s), 50%, High Sensitivity Mode On), 0.21lux (1/4s(1/3s), 50%, High Sensitivity Mode Off)
Shutter Speed	1/1~1/10000s (22 steps)
Focus	Auto Focus (Trigger/Interval), Manual Focus (Variable Speed), One Push Trigger, Near Limit
White Balance	AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)
Exposure	Full Auto, Gain, Gain Limit, Shutter Priority, Iris Priority, Manual, Bright, Slow Shutter, Max/Min Shutter Limit, Slow AE
Noise Reduction	On/Off (levels 1 to 5 and Off, 6 steps total), 2D/3D
S/N Ratio	50dB
Additional Features	WDR Support, Image Stabilizer, Internal Sync System, High Sensitivity, Defog Mode, Backlight Compensation, HLC, Flipper, Mirror
Physical Remote Control	Yes
Pan and Tilt Movement	Horizontal: ±350 degrees continuous pan (zoom adaptive speed range: 0.05˚~100˚/s) Vertical: +90 degrees to -30 degrees (zoom adaptive speed range: 0.05˚~50˚/s)
Preset Positions and Speed	128 (speed adjustable [5 levels] up to 150˚/s, 6 presets on remote control)
Preset Memory	Yes (preset memory for image parameters), home position support
Environment	Indoor
Video Output	1x RJ45 - HDBaseT(4K) with HDBaseT video output transmission distance up to 100 meters 1x HDMI Type A- HDMI1.4 (4K), 1x BNC-3G-SDI (1080p), 1x CVBS
Ethernet Cable Support	High-quality Cat6 cable required - supported lengths of 100m (1080p@59.94) and 70m (4K@29.97)
Resolutions	HDMI: 4K 2160p@29.97/25/23.98, 1080p@59.94/50/29.97/25, 1080i@59.94/50, 720p@59.94/50/23.98 SDI: 1080p@59.94/50/29.97/25/23.98, 1080i@59.94/50, 720p@59.94/50
SDI Standard	Supports SD-SDI, HD-SDI, 3G-SDI
Audio Input	3.5mm jack
Control Interface	IP control, 2x RJ45 - RS232/RS422/RS485 (phoenix connector adapter included), IR remote control sensor
Control Protocol	VISCA / VISCA over IP / Pelco P,D
Web and API Authentication Method	Digest
Power Input	DC12V, HDBaseT POE+
Power Consumption	15W
Operating Temperature	14˚ to 122˚ F (-10˚ to +50˚ C)
Relative Humidity	≤80% suitable for use
Dimension (H x W x D)	10.24in x 5.67in x 7.17in (260mm x 144mm x 182mm)
Weight	84.66 oz (2400 g)

EV-RS4K-1 Specifications

Input/Interface	HDBaseT, Audio, IP (RJ45 100Mbps)
Output	HDMI 1.4b
Power Input	DC12V, provides power to camera over Cat6 cable (802.3at PoE+)
Control Interface	IP control, RS232, RS422, RS485
IR IN Control Interface	3.5mm 3.5-5v TTL
Audio Output	3.5mm jack
Dimension (H x W x D)	1.3in x 4.65in x 6.46in (33mm x 118mm x 164mm)
Weight	18.34 oz (519.93 g)

Ordering Information

EV-PTZ-4K-3	4K PTZ camera with HDBaseT, HDMI, and HD-SDI outputs
EV-RS4K-1	HDBaseT receiver with HDBaseT, Audio, IP inputs, HDMI 1.4b output, 802.3at PoE+

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