



RoboEye® Robotic Camera



The PT-RE-2 RoboEye is a fully integrated, aesthetically pleasing robotic camera system that includes a 4K digital camera with a 1"-type EXMOR R™ CMOS sensor, zoom lens and a compact pan/tilt head. Robotic servo controls and motors of ultra-high position and velocity accuracy make RoboEye the perfect choice for on-air use.

Smooth On-Air Performance

With advanced servo motors and image stabilization, the RoboEye can perform precise, ultra-quiet smooth moves that are ideal for live on-air operation, while its 60p (HD) frame rate accurately captures fast moving action. The system's 4K sensor and built in ND filters deliver the sensitivity and exposure latitude required for a variety of lighting situations.

Powerful 24x Zoom

RoboEye's internal camera offers both optical and digital zoom in 4K and 24x when shooting in HD (1080p60). With an MOD of 80-1000mm, the system also performs image magnification by using the optical image stabilizer function to zoom in an image and combine the sensor's optical zoom and electronic zoom. This helps reduce image degradation. The camera's Super Resolution Technology first zooms optically to the optical magnification, then uses Pixel Super Resolution Technology to enlarge the image an additional amount – producing sharp, clear images despite the increased zoom ratio. The sensor also trims the central part of the picture and enlarges it without image processing.

reFrame® Automatic Shot Correction And Tracking

When paired with the latest EVS RCCP-2A Robotics and Camera Control Panel and optional STS Studio or LGS Legislative software packages, the RoboEye leverages artificial intelligence (AI) and facial recognition algorithms built into reFrame to keep talent in frame. The software lock the camera onto the talent and automatically trims the shot, without the operator ever having to touch the controls.

Easy Installation With PoE and Live Video Streaming

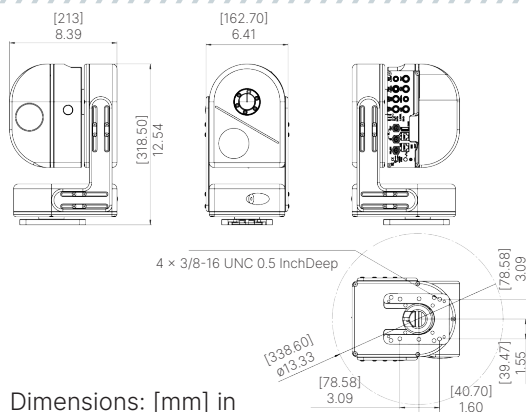
Easy integration is accomplished with an RJ45 PoE network interface which allows users to access video, control, and data – and supply power to the system – via a single cable, while also accommodating serial and local power interfaces. H.264 and H.265 streaming output (selectable) is included for live streaming directly from the camera, and a Web GUI provides simplified control from virtually anywhere.



RoboEye[®] Robotic Camera

SPECIFICATIONS	
Camera/Lens	
Imaging Device	1.0-type Exmor R™ 4K CMOS Sensor
Total Pixels	3840×2160 (QFHD), 1920×1080 (Full HD), 1280×720 (HD), 720×480/576 (SD)
Minimum Illumination	0.5 lx (Shutter Speed : 1/30 s) 0.067 lx (Shutter Speed : 1/4 s or 1/3 s)
S/N	50dB
Gain Setup-level	Auto / Manual (0 dB to 48.0 dB), 0 to 16 steps
Shutter	1/1 to 1/10000 s, 22 steps
Image Invert	Electronic Flip, Mirror Image
Image Processing Functions	AE Modes: Full Auto, Manual, Priority mode (shutter/iris), Bright, EV Compensation Manual Controls: White Balance (Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp, Standard / Straight gamma, Noise Reduction (3D, 2D), Visibility Enhancer, Defog, Image Stabilization, Slow AE Response, Slow Shutter
Zoom	Optical Zoom (wide to tele): 12x zoom, f=9.3 mm to 111.6 mm, F2.8 to F4.5 Digital Zoom: 12x (144x with optical zoom) Super Resolution Zoom Function: QFHD: With Optical Zoom at max 12x; Turn on Super Resolution will increase 1.5x for a max. 18x with optical zoom. Full HD: With Optical Zoom at max 12x; Turn on Super Resolution will increase 2.0x for a max. 24x with optical zoom. Note: The Super Resolution function is mutually exclusive to Digital Zoom
Focus	MOD = 80-1000mm Auto Focus: (Normal AF, Interval AF, Zoom Trigger AF [Sensitivity : normal, low]), Manual: (Standard, Variable, Direct), One Push Trigger, Near Limit, Spot Focus
Iris	Full Auto/Manual, 16 steps

Specifications and features are subject to change without prior notice.



SPECIFICATIONS	
Interface/Signals	
HDMI (Micro)	QFHD: QFHD/29.97p, QFHD/25p FHD: 1080p/59.94, 1080i/59.94, 1080p/50, 1080i/50, 1080p/29.97, 1080p/25 HD: 720p/59.94, 720p/50
HD-SDI (BNC)	FHD: 1080p/59.94, 1080p/50, 1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50 HD: 720p/59.94, 720p/50
Streaming Video	H.264, H.265 User Selectable
AUX (BNC)	Robotic Serial Data
VR SYNC (BNC)	IN / OUT, Bilevel or Trilevel *Note: FOR VR APPLICATIONS ONLY
Ethernet x2 (RJ45)	(1) PoE 802.3 at/bt 1000BASE-T/100BASE-TX/10BASE-Te (1) IEEE 802.3 ab1000BASE-T/100BASE-TX/10BASE-Te
Serial	RS232 / 422
Pan	Interface To/From PTZF head
Tilt	Interface To/From PTZF head
Microphone Input	Line level, Stereo 3.5mm
Pan/Tilt	
Pan/Tilt Travel	Pan (360°) (non continuous) Tilt (270°)
Velocity Pan/Tilt	0.01-90°/Sec (16bit)
Acceler. Pan/Tilt	45°/Sec
Audible Noise	25 dB (A) Max, IEC Free Field
Stop/Position Accuracy	110 arc-sec (0.03°)
Position Resolution	819,200 positions/360°
Tally	Red & Green
Power Inputs	PoE 802.3 bt type 3(51W), type 4(71W) AC line input with supplied power supply 85-264 Vac, 12Vdc at 8 amps,100W
Operating Temperature	32° to 104° (0° to 40°C)
Operating Humidity	90% Non-condensing
Weight	25 lbs. (11.4 kgs.)
Color	Black or White Custom Colors Available

Specifications and features are subject to change without prior notice.

ORDERING INFORMATION	
MODEL NUMBER	DESCRIPTION
PT-RE-2	RE RoboEye PTZF Camera - Black
PT-RE-2-WHT	RE RoboEye PTZF Camera - White
PT-RE-2-BKT	RoboEye Universal Mounting Bracket



© 2021 EVS Broadcast Equipment, all rights reserved.



EVS is globally recognized as the leader in live video technology for broadcast and new media productions. Our passion and purpose are to help our clients craft immersive stories that trigger the best return on emotion. Through a wide range of products and solutions, we help deliver the most gripping live sports images, buzzing entertainment shows and breaking news content to millions of viewers every day – and in real-time.