

Eyemax 4MP H.265+ IR PTZ Network Camera with 25x Optical Zoom, Starlight Technology, IR Range up to 328ft, PoE+



1/2.8" STARVIS™ CMOS • 25x optical zoom • H.265 Encoding • Max. 25/30fps@4M/3M • 25/30/50/60fps@1080P • IVS • Support PoE+ • IR distance up to 100m • IP66 • UL Listed (C • CA) • Wall Mount

Mount Accessories

PTZ Junction Box	PTJB-E120
Pole Mount Bracket	CPM-E150
PTZ Ceiling Mount	PTMC-E300C

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Overview

WizSense network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Starlight Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

Eyemax cameras operate in extreme temperature environments, rated for use in temperatures from -40°C ~ 70°C (-40°F ~ +158°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

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Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMD PLUS

With Deep-Learning Algorithm, SMD PLUS filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

SPECIFICATIONS

Camera	
Image Sensor	1/2.8" STARVIS™ CMOS
Pixel	4MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	4GB
RAM	1GB
Electronic Shutter Speed	1/1 s-1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 Lux @ F1.6 B/W: 0.0005 Lux @ F1.6 0 Lux @ F1.6 (IR light on)
Illumination Distance	100 m (328.08 ft)

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Illuminator On/Off Control	Zoom Prio / Manual / Smart IR
Illuminator Number	4
Lens	
Focal Length	4.8 ~ 120 mm
Max. Aperture	F1.6 ~ F4.0
Field of View	H: 60.0°-2.5°; V: 30.8°-2.2°; D: 66.7°-2.9°
Optical Zoom	25x
Focus Control	Auto / Semi-Auto / Manual
Close Focus Distance	0.1 ~ 1.5 m (0.33 ~ 4.92 ft)
Iris Control	Auto / Manual
DORI Distance	Detect : 2540 m (8333.33 ft) Observe : 1016 m (3333.33 ft) Recognize : 508 m (1666.67 ft) Identify : 254 m (833.33 ft)
PTZ	
Pan/Tilt Range	Pan: 0°-360° (endless) Tilt: -15°-90° (auto flip 180°)
Manual Control Speed	Pan: 0.1°-200°/s Tilt: 0.1°-120°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Speed Adjustment	Support
Power-off Memory	Support
Idle Motion	Preset / Tour / Pattern / Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)
General Intelligence	
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly

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IVS	Object Abandoned/Missing
Artificial Intelligence	
Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
SMD PLUS	Support
Face Detection	Support
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Video	
Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG (sub stream)
Streaming Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 4MP / 3MP / 1080P / 1.3MP / 720P (1-25fps) Sub stream 1: D1/CIF (1-25fps) Sub stream 2: 1080P / 1.3M / 720P (1-25fps)
Bit Rate Control	Variable / Constant
Bit Rate	H.265 / H.264: 3 kbps-20480 kbps
Day/Night	Auto(ICR) / Color / B/W
BLC	Support
WDR	120 dB
HLC	Support
White Balance	Auto / Indoor / Outdoor / Track / Manual / Sodium lamp / Natural light / Street lamp
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Electronic Image Stabilization	Support
Electronic Defog	Support
Digital Zoom	16x

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Flip	180°
Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Audio	
Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2; G.729
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
Interoperability	ONVIF Profile S&G&T; CGI
Streaming Method	Unicast / Multicast
User / Host	20
Storage	NAS; Local PC; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari (no version restrictions)
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS / Android
Certification	
Certifications	CE: EN55032/EN55024/EN50130 ~ 4 FCC: Part15 subpartB, ANSI C63.4 ~ 2014 UL: UL62368 ~ 1+CAN/CSA C22.2, No. 62368 ~ 1
Port	
Audio Input	1
Audio Output	1
Alarm I/O	2/1
Power	
Power Supply	DC 12V/3A / PoE+ (802.3at)
Power Consumption	13W / 21W (IR on)
Environment	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)

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Operating Humidity	≥95%
Protection	IP66; TVS 6000V lightning proof; Surge protection
Structure	
Dimensions	Φ160 mm × 295 mm (6.30" × 11.61")
Net Weight	3 kg (6.61 lb)
Gross Weight	4.8kg (10.58lb)