

**EYEMAX | 4K(8MP) H.265+ Outdoor IR Dome Network Camera, Starlight, True-WDR, Motorized 2.7-12mm, UL-Listed , IR Range up to 164ft, IP67, IK10, PoE or DC 12V**



1/2.5" 8 Megapixel progressive scan STARVIS CMOS • H.265 & H.264 dual-stream encoding • 15fps@4K(3840x2160), 25/30fps@3M(2304x1296) • Day/Night(ICR), 3DNR, AWB, AGC, BLC • Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS • 2.7~12mm motorized lens • Max. IR LEDs Length 50m • Micro SD card slot • IP67, IK10 • PoE

## Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression

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capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology, and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

## FEATURES

- **ePoE technology:** The ePoE technology of Eyemax, designed internally, adopts advanced 2D-PAM3 coding modulation from the physical layer and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the rate of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Eyemax ePoE technology offers a new way to accomplish long-distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.
- **4K technology:** 4K technology as a revolutionary breakthrough in an image, which enhance the moving image of an essence, allowing users to experience the best picture quality brought about by the visual feast. For 4K surveillance with four times the 1080P resolution presented to the user with more details. Under the same scenario by raising the pixels, reduce the camera cost.
- **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.
- **Intelligent Video System (IVS):** IVS is a built-in video analytic algorithm that delivers smart functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to promptly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.
- **Protection(IP67, IK10, wide voltage):** The camera allows for  $\pm 30\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides sufficient protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.
- **Smart H.265+:** Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265

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video compression.

## SPECIFICATIONS

<b>Camera</b>	
Image Sensor	1/2.5" 8Megapixel progressive scan CMOS
Effective Pixels	3840(H) x2160(V)
RAM/ROM	512MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 50m (164ft)
IR On/Off Control	Auto/Manual
IR LEDs	2
<b>Lens</b>	
Lens Type	Motorized/ Auto Iris(DC)
Mount Type	Board-in
Focal Length	2.7~12mm
Max. Aperture	F1.4
Angle of View	H:110°~40° , V:58°~23°
Optical Zoom	4x
Focus Control	Motorized
Close Focus Distance	0.3m
<b>Dori Distance</b>	
Detect	85m(280ft) ~ 228m(748ft)
Observe	34m(112ft) ~ 91m(299ft)
Recognize	17m(56ft) ~ 46m(151ft)
Identify	8.5m(28ft) ~ 23m(75ft)

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<b>Pan/Tilt/Rotation</b>	
Pan/Tilt/Rotation Range	Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°
<b>Intelligence</b>	
IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection
<b>Video</b>	
Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048×1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) /VGA(640×480)/CIF(352×288/352×240)
<b>Frame Rate</b>	
Frame Rate	Main Stream: 4K (1~25/30fps) Sub Stream: D1(1!25/30Fps Third Stream: 720P(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off/On

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Privacy Masking	Off / On (4 Area, Rectangle)
<b>Audio</b>	
Compression	G.711a/ G.711Mu/ AAC/ G.726
<b>Network</b>	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android
<b>Certifications</b>	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
<b>Interface</b>	
Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
<b>Electrical</b>	
Power Supply	DC12V PoE (802.3af)(Class 0)
Power Consumption	<8.5W
<b>Environmental</b>	
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67

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Vandal Resistance	IK10
<b>Construction</b>	
Casing	Metal
Dimensions	φ122mm×88.9mm(4.80"×3.50")
Net Weight	0.5kg (1.1lb)
Gross Weight	0.58kg (1.29lb)