

# Eyemax 4 × 2MP Multi-Sensor Panoramic Dome IP Camera, WizMind, Crowd + Vehicle Density, IP67, IK10, 12VDC / 24VAC / PoE



Four 2MP 1/2.8" CMOS image sensor • Outputs max. 8MP (4096 × 1800) @30 fps • SMART H.264+ / H.265+ • Intelligent functions • Supports object tracking • Abnormality detection • 12VDC / 24VAC • IP67, IK10

WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, DVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

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## Series Overview

The splicing camera supports a 180° panoramic view and 4-channel hard-ware splicing to realize HD panoramic surveillance. The camera supports crowd situation analysis, vehicle situation analysis, and perimeter protection. It is widely applied in various scenes such as squares, airports, and traffic.

## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## Panoramic Splicing

With advanced splicing algorithm, Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of four-sensor camera can be 180°, and the field of view of eight-sensor camera can be 360°.

## Crowd Density

With deep learning algorithm, Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

## Vehicle Density

With deep learning algorithm, Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

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## IVS

With advanced video algorithm, IVS technology supports intelligent functions, such as tripwire and intrusion.

## Cyber Security

Network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

## Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes. IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).  
Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## FEATURES

- Four 2MP 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (4096 × 1800) @30 fps
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Intelligent functions: Crowd distribution map, Vehicle Density
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; 485; BNC; supports max. 256 G SD card
- 12VDC / 24VAC / PoE power supply; easy for installation
- Supports object tracking
- IP67,IK10 protection

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## SPECIFICATIONS

<b>Camera</b>	
Image Sensor	1/2.8" 4 × 2Megapixel progressive CMOS
Max. Resolution	4096 (H) × 1800 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto / Manual 1/3 s ~ 1/100,000 s
Min. Illumination	0.005 Lux @ F1.6 (Color, 30 IRE) 0.0005 Lux @ F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	30 m (98.4 ft) (IR LED)
Illuminator On/Off Control	Auto / Manual
Illuminator Number	6 (IR LED)
Pan / Tilt / Rotation Range	Pan: 0° to 355° Tilt: 0° to 75° Rotation: -20° to 20°
<b>Lens</b>	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View	Horizontal :180°; Vertical 90°
Iris Type	Fixed
Close Focus Distance	0.6 m (2.0 ft)
DORI Distance	Detect : 38.6 m (126.6 ft) Observe : 15.4 m (50.5 ft) Recognize : 7.7m (25.3 ft) Identify : 3.9 m (12.8 ft)
<b>Artificial Intelligence</b>	

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Vehicle Density	Vehicle density; parking upper limit; vehicle congestion alarm
Crowd Density	Crowd map, global people counting; people counting in area
<b>General Intelligence</b>	
IVS	Tripwire; intrusion
<b>Video</b>	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+ / Smart H.264+
Video Frame Rate	Main stream: 4096 × 1800 (1-25/30 fps) Sub stream: 1024 × 452 (1-25/30 fps) Third stream: 1920 × 832 (1-25/30 fps)
Stream Capability	3 streams
Resolution	4096 × 1800; 3840 × 1680; 2880 × 1264; 1024 × 452; 1920 × 832; 1280 × 560
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 9 kbps-17664 kbps H.265: 9 kbps-17664 kbps
Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	DWDR
Scene Self-adaptation (SSA)	Yes
White Balance	Auto / natural / street lamp / outdoor / manual / regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF / ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Audio Compression	G.711A; G.711Mu; G.726; G.723

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<b>Alarm Event</b>	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; intensity change; voltage detection; external alarm; safety exception; crowd distribution map; vehicle congestion; parking upper limit
<b>Network</b>	
Network	RJ-45 (10/100/1000 Base-T)
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP; Bonjour
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE9 and later Chrome: 50 and later Firefox: 48 and later
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
<b>Certifications</b>	
Certifications	CE-LVD: EN62368 ~ 1 CE-EMC: Electromagnetic Compatibility Directive FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950 ~ 1 CAN/CSA C22.2 No.60950 ~ 1-07
<b>Port</b>	
RS-485	1 (baud rate range: 1200 bps-115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in : 5mA 3V-5V DC
Alarm Output	2 channels out : 1,000mA 30V DC/500mA 50V DC
<b>Power</b>	

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Power Supply	12VDC / 24VAC / PoE(802.3at)
Power Consumption	Basic power consumption: 4.9W (12V DC); 6.4W(24V AC); 6.5W (PoE) Max. power consumption (ICR + IR LED): 12.5W (12V DC);14.3W(24V AC); 14.9W (PoE)
<b>Environment</b>	
Operating Conditions	−40°C to +60°C (−40°F to +140°F)/Less than 95% RH
Storage Temperature	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67; IK10
<b>Construction</b>	
Casing	Metal + plastic
Dimensions	169.5 mm × Ø212 mm (6.7" × Ø8.3")
Net Weight	3.65 kg (8.0 lb)
Gross Weight	4.37 kg (9.6 lb)