

EYEMAX 4MP Full Color Night View Turret Network Camera, Smart Dual Illuminators



Smart Dual Illuminators (IR + White Light) IR mode white light turns on motion detection • WizSense AI • SMD Plus • 100ft IR / Warm Light Distance • 2.8mm Fixed Lens • 120dB WDR • Built-in Mic • 12VDC/PoE • IP67

Mount Accessories

Wall Mount Bracket	CWB E203W
Junction Box	CJB E137

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Overview

Utilizing advanced deep learning algorithms, the WizSense 2 Series network camera offers intelligent features like perimeter protection and smart motion detection, along with enhanced image quality in low-light conditions thanks to starlight technology.

Smart Dual Illuminators

Smart Dual Illuminators technology uses intelligent algorithms to detect targets. It switches to white light when a target enters the monitoring area, recording full-color video and key event data, and reverts to the IR illuminator when the target leaves, reducing light pollution.

SMD Plus

Smart Motion Detection technology utilizes an intelligent algorithm to categorize motion-triggered targets and filter out irrelevant alarms, ensuring effective and accurate alerts.

Perimeter Protection

Perimeter Protection technology, driven by deep learning algorithms, accurately recognizes humans and vehicles, significantly reducing false alarms in restricted areas based on target types like tripwire and intrusion.

Smart H.265+ & Smart H.264+

Smart encoding technology, featuring an advanced scene-adaptive rate control algorithm, achieves higher encoding efficiency than H.265 and H.264. This results in high-quality video while reducing storage and transmission costs

Full-color

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Utilizing high-performance sensors and large aperture lenses, our Full-color technology displays clear, colorful images in ultra-low light conditions. This photosensitivity technology captures more available light, revealing vibrant image details.

Cyber Security

Our network cameras use advanced security measures, including authentication, access control, encryption, and trusted protection, enhancing their resilience against cyber threats and safeguarding against malicious programs.

IP67 Protection

The camera undergoes rigorous tests for dust and water resistance. It is dust-proof and remains operational after submersion in 1m deep water for 30 minutes.

Wide Voltage Protection

The camera supports $\pm 30\%$ input voltage tolerance, making it ideal for outdoor environments with unstable power.

FEATURES

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.

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- IP67 protection.
- SMD Plus.

SPECIFICATIONS

Camera	
Image Sensor	1/2.9" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	30 m (98.43 ft) (IR) 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	1 (IR LED) 1 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360°
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View	H: 95°; V: 52°; D: 114°
Iris Control	Fixed

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DORI Distance	Detect: 63.6 m (208.66 ft) Observe: 25.4 m (83.33 ft) Recognize: 12.7 m (41.67 ft) Identify: 6.4 m (20.99 ft)
Intelligence	
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 2688 × 1520@(1-20 fps)/2560 × 1440@ (1-25/30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	2 streams
Resolution	4M (2688 × 1520/2560 × 1440); 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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
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)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes

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Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception; SMD
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Browser	IE / Chrome / Firefox
Management Software	DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN 62368 ~ 1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B
Power	
Power Supply	12VDC / PoE (802.3af)
Power Consumption	Basic: 2.1 W (12 VDC); 2.5 W (PoE) Max. (H.265 + intelligence on + WDR + warm light): 4.4 W (12 VDC); 5.2 W (PoE)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)

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Operating Humidity	≤95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67
Structure	
Casing Material	Inner core: Metal; Cover: Metal; Decoration ring: Plastic
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.65 kg (1.43 lb)