

# 8MP Night Color Dual Illumination Turret IP Camera, Fixed Lens, WizSense 2 AI



## SMART DUAL ILLUMINATORS **NIGHTCOLOR**

EYEMAX

Smart Dual Illuminators (IR + White Light) IR mode white light turns on motion detection • 8MP • 120dB WDR • 2.8mm • IP67 • 12VDC • Built-in Mic

### Mount Accessories

Wall Mount Bracket	<a href="#">CWB E203W</a>
Junction Box (White)	<a href="#">CJB E137</a>
Junction Box (Black)	<b>CJB E137-B</b>

## Overview

The WizSense 2 Series network camera utilizes advanced deep learning algorithms to support intelligent functions like perimeter protection and smart motion detection. Its starlight technology enables better image quality in low-light conditions.

## Smart Dual Illuminators

Smart Dual Illuminators technology uses an intelligent algorithm to detect targets. At night, the IR illuminator is on, and when a target enters the monitoring area, the white light turns on. The camera then records full-color video and key event information, linking snapshots and videos with full-color images. When the target exits the monitoring area, the white light turns off, and the IR illuminator reduces light pollution effectively.

## SMD Plus

Smart Motion Detection technology uses intelligent algorithms to categorize and filter motion detection triggers. This ensures that only relevant targets trigger alarms, resulting in effective and accurate notifications.

## Perimeter Protection

Perimeter Protection technology uses deep learning algorithms to accurately recognize humans and vehicles. This reduces false alarms in restricted areas, such as pedestrian and vehicle zones, when using intelligent detection based on target types like tripwire and intrusion.

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

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

## Night-color

Night-color technology utilizes high-performance sensors and large aperture lenses to display clear, colorful images in ultra-low light environments. This photosensitivity technology captures more available light, resulting in more colorful and detailed images.

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## Cyber Security

The network cameras incorporate a variety of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission, and storage. These measures enhance the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

## IP67

The camera underwent rigorous dust and immersion tests and passed. It has a dust-proof and waterproof enclosure and can operate normally when submerged in water up to 1 m deep for 30 minutes.

## Wide Voltage

The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

## FEATURES

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and 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).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports max. 256 G Micro SD card
- built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.

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- SMD Plus.

## SPECIFICATIONS

Camera	
Image Sensor	1/2.7" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	256 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	IR: 98.43 ft (30m) Warm light: 98.43 ft (30m)
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	2.8mm
Max. Aperture	F1.6
Field of View	H: 111° / V: 58° / D: 132°
Iris Control	Fixed
Close Focus Distance	4.92 ft (1.5m)

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DORI Distance	Detect: 278.22 ft (84.8 m) Observe: 111.22 ft (33.9 m) Recognize: 55.77 ft (17.0 m) Identify: 27.89 ft (8.5 m)
<b>Intelligence</b>	
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
<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: 3840 × 2160 @(1-20 fps )/2688 × 1520@ (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	3840 × 2160 (3840 × 2160) 3072 × 2048 (3072 × 2048) 3072 × 1728 (3072 × 1728) 2880 × 1620 (2880 × 1620) 2688 × 1520 (2688 × 1520) 3M (2048 × 1536) 2304 × 1296 (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–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Auto(ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	120 dB

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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
Image Rotation	0° / 90° / 180° / 270° (Support 90° / 270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Built-in MIC	Yes
Audio Compression	G.711a / G.711Mu / PCM / G.726
<b>Alarm</b>	
Alarm Event	No SD card / SD card full / SD card error / network disconnection / IP conflict / illegal access / motion detection / video tampering / tripwire / intrusion / audio detection / voltage detection / SMD / security exception
<b>Network</b>	
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 / QoS / UPnP / NTP / Multicast / ICMP / IGMP / NFS / PPPoE / Bonjour
Interoperability	ONVIF (Profile S/Profile G/Profile T) / CGI / P2P / Milestone
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP / SFTP / Micro SD card (support max. 256 GB) / NAS
Browser	IE / Chrome / Firefox
Management Software	Smart PSS / 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 / firmware encryption / generation and importing of X.509 certification

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<b>Certification</b>	
Certifications	CE-LVD: EN62368 ~ 1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950 ~ 1 CAN/CSA C22.2 No.60950 ~ 1-07
<b>Power</b>	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.6 W (12 VDC); 3.3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 5 W (12 VDC); 5.9 W (PoE)
<b>Environment</b>	
Operating Temperature	-40°F to +131°F (-40°C to +55°C)
Operating Humidity	≤95%
Storage Temperature	-40°F to +140°F (-40°C to +60°C)
Storage Humidity	≤95%
Protection	IP67
<b>Structure</b>	
Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal
Product Dimensions	3.90"× Φ4.80" (99.1 mm × Φ121.9 mm)
Net Weight	1.06 lb (0.48 kg)
Gross Weight	1.37 lb (0.62 kg)