

4K/8MP Dual-Light Fixed Turret Camera

CODE: EAGLE8C-IPC-IL-8-TUR1-FG



- 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@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection.



Function

Smart Dual Light

Smart Dual Light technology employs advanced algorithms to detect targets effectively. Typically, the infrared (IR) illuminator is activated at night. When a target enters the monitoring area, the white light turns on, and the camera captures full-colour video and information about key events. This means that the camera links snapshots and video footage with full-colour images. Once the target leaves the monitoring area, the white light turns off, and the IR illuminator is activated, thereby reducing light pollution efficiently.

Human Detection

Intelligent algorithms extract moving human targets from videos and filter out alarms triggered by non-human targets, thereby increasing the accuracy and effectiveness of alerts.

Smart H.265+ & Smart H.264+

With an advanced scene-adaptive rate control algorithm, smart encoding technology achieves higher encoding efficiency than H.265 and H.264. This innovation delivers high-quality video while reducing storage and transmission costs.

Image Flip

For narrow and long scenes, image flip technology rotates the image by 90°, 180°, or 270° to enhance surveillance in rotation mode.

Cyber Security

These cameras utilise a range of security technologies, including security authentication and authorisation, access control protocols, trusted protection, encrypted transmission, and encrypted storage. These technologies enhance the camera's defence against external cyber threats and prevent malicious programmes from compromising the device.

Protection (IP67, Wide Voltage)

IP67 Rating: The camera undergoes a series of stringent tests for dust and water immersion. It features a dust-proof function, and the enclosure operates normally after being submerged in 1 metre of water for 30 minutes.

Wide Voltage Range: The camera supports an input voltage tolerance of $\pm 30\%$ (for certain power supplies), making it suitable for outdoor environments with unstable voltage conditions.

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Technical Overview

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 (Colour, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	1 (Multi-core (IR + warm) light)
Angle Adjustment	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	2.8 mm: H: 110°; V: 58°; D: 132°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.5 m (4.92 ft)

	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)

DORI Distance

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Intelligence	
Human Detection	Support the classification and accurate detection of human
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Video	
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	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 4M (2880 × 1620/2688 × 1520); 3M (2048 × 1536/2304 × 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)/Colour/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
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

Audio	
Built-in MIC	Yes, built-in Mic
Audio Compression	G.711a; G.711Mu; PCM; G.726

Alarm	
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception

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; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF (Profile S & Profile T); CGI
User/Host	6 (Total bandwidth: 48 M)
Storage	FTP
Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Mobile Client	iOS; Android

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Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.5 W (12 VDC), 3.5 W (PoE); Max.: 4.5 W (12 VDC), 5.8 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)
Environment	
Operating Temperature	-40 °C to +55 °C (-40 °F to 131 °F)
Operating Humidity	≤95%(RH), non-condensing
Storage Temperature	-40 °C to +55 °C (-40 °F to 131 °F)
Storage Humidity	≤95%(RH), non-condensing
Protection	IP67
Structure	
Casing Material	Metal
Product Dimensions	85.6 mm × Φ94.0 mm (3.37" × Φ3.70")
Net Weight	0.35 kg (0.77 lb)
Gross Weight	0.46 kg (1.01 lb)

Dimensions (mm/inch)

mm [inch]

