EAGLE8C-IP-AD-TUR-FW
8MP FULL-COLOUR AI DETERRANCE NETWORK TURRET

This series of AI products and solutions adopts independent AI chips and deep learning algorithms. It focuses on humans and vehicles with high accuracy, enabling users to act fast on defined targets. Based on advanced technologies, the cameras provide intelligent & simple solutions.

Series Overview

With advanced deep learning algorithms, this network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-colour technology, it provides a better image effect in the condition of low illuminance.

Functions

SMD Plus
With intelligent algorithm, Smart Motion Detection technology categorizes targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to provide effective and accurate alarms.

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

Full-colour
With high-performance sensors and large aperture lenses, Full-colour technology can display clear, colourful images in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colourful image details.

Siren and Light Active Deterrence
Siren and light active deterrence technology supports light alarms and voice alarms when perimeter events occur, for deterrence and effective intervention. The camera has multiple voices built-in for selection, and supports customized voice importing.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max.8MP (3840 × 2160) @20 fps (AI function enabled by default)and supports 8MP (3840 × 2160) @25/30 fps (when AI function disabled)
- H.265 codec, high compression rate, low bit rate
- Built-in warm illuminator, and the max. illumination distance: 30 m
- ROI, Smart H.265+/Smart H.264+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital · watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and · accurate detection of vehicle and human)
- 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
- Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker
- 12V DC/PoE power supply
- IP67 protection
- SMD Plus
- Red and blue flashlight alarm

8Mp	Active Deterrence	Full-colour	SMD Plus	Smart Codec	IP67

Perimeter Protection
With deep learning algorithms, Perimeter Protection technology can recognize people and vehicles accurately. In restricted areas (such as pedestrian areas and vehicle areas), false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Protection (IP67, wide voltage)
IP67: The camera passes a series of strict tests on dust and soak. It has dust-proof functionality, and the enclosure works as normal after soaking in 1 m deep water for 30 minutes.
Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

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Technical Specification

Camera

Image Sensor	1/2.8"8Megapixel progressive CMOS
Max. Resolution	3840(H) × 2160 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.007 Lux @ F1.4
S/N Ratio	>56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm
Max. Aperture	F1.4
Field of View	2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127°
Iris Type	Fixed
Close Focus Distance	2.8 mm: 1.5 m (4.9 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	87.7m (287.7 ft)	35.1 m (115.2 ft)	17.5m (57.4 ft)	8.8m (28.8 ft)
	3.6 mm	110.3m (361.8 ft)	44.1m (144.7ft)	22.1m (72.5 ft)	11m (36 ft)

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)
Intelligent 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 by default) 3840 × 2160 @(1–25/30 fps when AI function disabled) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) third stream:1280 × 1080 @ (1–25/30 fps)
Stream Capability	3 streams

Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (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	Colour/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	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)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support with 1920 × 1080 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)importing)

Network

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); Dahua Colud; NAS
Browser	IE: IE8 and later Chrome Firefox Safari: Safari 12 and later

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Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 3.1W (DC12V); 3.5W (POE) Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.8W (DC12V); 8.2W (POE)

Environment

Operating Conditions	−40°C to +60°C (−40°F to +140°F)/Less than 95% RH
Storage Conditions	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	Φ122.0 mm × 110.9 mm (4.8" × 4.4")
Net Weight	754 g (1.7 lb)
Gross Weight	915 g (2.0 lb)

Dimensions (mm[inch])