EAGLE range

OYN-X

EAG5C-AI-IP-TUR-FW
5MP IR FIXED FOCAL AI DETERRENCE NETWORK TURRET

- 5MP 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps and 2688 × 1520 (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in efficient warm light and IR LED, and the Max. IR distance is 50 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
- Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light during 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, easy for installation
- ePoE, IP67 protection

| 5Mp | Face Detection | Perimeter Protection | People counting | Starlight | Smart Dual Illuminators |

Series Overview

With a starlight solution and deep learning algorithms, this network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improves the accuracy of video analysis. The series camera supports dust-proof functions, waterproof functions and vandal-proof functions, complying with the standards of IP67 and IK10

Functions

Smart Dual Illumination

Smart Dual Illuminator technology adopts deep learning algorithms to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-colour video and information of key events. The camera links snapshot and video with full-colour image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Face Detection

Face Detection technology can detect the face in the image. With deep learning algorithms, the technology supports detecting, tracking, capturing and selecting the best face images, and then outputs face snapshots.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, park-ing detection, loitering detection and gathering detection) are largely reduced.

People Counting

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platforms, it outputs yearly/monthly/daily reports to meet your requirements.

Siren and Light Active Deterrence

Siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

One-tap Disarming

One-tap Disarming, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage remotely, which meets multiple scenarios .

Cyber Security

This 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 infiltrating the device.

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Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof functionality, and the enclosure works as normal after soaking in 1m 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.

Technical Specification

Camera

Image Sensor	1/2.7" CMOS
Max. Resolution	128 MB
ROM	512 MB
RAM	Progressive
Scanning System	Auto/Manual 1/3 s–1/100,000 s
Electronic Shutter Speed	0.005 Lux @F1.6
Min. Illumination	>56 dB
S/N Ratio	2.8 mm: 20 m (65.6 ft)
Illumination Distance	Auto/Manual
Illuminator On/Off Control	2 (IR light); 2 (warm light)
Illuminator Number	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°"
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	2.8 mm: F1.6
Field of View	2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.1 m (3.6 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0 ft)
	3.6mm	79.4 m (260.5 ft)	31.8 m (104.3 ft)	15.9 m (52.2 ft)	7.9 m (25.9 ft)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)

Smart Event

IVS	Abandoned object; missing object

Heat Map	Yes

Professional, intelligent

IVS (Perimeter Protection)	Intrusion; tripwire; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
Face Detection	Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports, and support people counting in area
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: (2592 × 1944 @1-20 fps) (2688 × 1520 @1-25/30 fps) (1920 × 1080 @1-50/60 fps) Sub stream: (704 × 576@1-50 fps/704 × 480@1-60 fps) Third stream: (1920 × 1080 @1-25/30 fps)
Stream Capability	3 streams
Resolution	5M (2592 × 1944); 4M (2688 × 1520); 4M (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–8192 kbps H.265: 32 kbps–8192 kbps
Day/Night	Auto (ICR)/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, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

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Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G.722.1; G.729; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detection; safety exception; light alarm; sound alarm (21 built-in sounds and custom voices importing)

Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
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; SAMBA; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Port

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

Power

Power Supply	12V DC/PoE
Power Consumption	Basic power consumption: 1.9W (12V DC); 2.4W (PoE) Max. power consumption (WDR + H.265 + face recognition + light and sound alarm + IR LED intensity): 8.3W (12V DC); 8.7W (PoE)

Environment

Operating Temperature	−40°C to +60°C (−40°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	−40°C to +60°C (−40°F to +140°F)
Protection	IP67

Structure

Casing	Metal
Product Dimensions	Φ122 mm × 110.9 mm (Φ4.8" × 4.4")
Net Weight	756 g (1.7 lb)
Gross Weight	940 g (2.1 lb)

Dimensions (mm[inch])

110.9 [4.37]

⌀4.5 [⌀0.18]
⌀84.0 [⌀3.31]
⌀122.0 [⌀4.8]