

OS-I5-EENS5F-EMST-0280 | 5MP WDR IR Eyeball AI Network Camera



- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring:
Web viewer, CMS (DSS/PSS) & DMSS
- 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- Built-in MIC
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67



System Overview

Pro AI series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Face detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Osiris cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter protection

Osiris's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

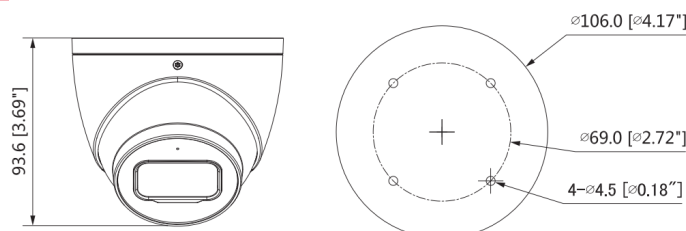
People counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Dimensions (mm/inch)



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Technical Specifications

Camera					
Image Sensor	1/2.7" 8Megapixel progressive CMOS				
Effective Pixels	2592 (H) × 1944 (V)				
RAM/ROM	512MB/128MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
Minimum Illumination	0.005 Lux@F1.6				
IR Distance	Distance up to 50 m (164 ft)				
IR On/Off Control	Auto / Manual				
IR LEDs	2				
Pan / Tilt / Rotation	Pan: 0°–360° / Tilt: 0°–78° Rotation: 0°–360°				
Lens					
Lens Type	Fixed-focal				
Mount Type	Board-in				
Focal Length	2.8 mm, 3.6 mm, 6.0 mm				
Max. Aperture	F1.6				
Angle of View	H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°				
Aperture Type	Fixed				
Focus Distance	0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)				
Dori Distance					
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
	6.0 mm	120m (394ft)	48m (157ft)	24m (79ft)	12m (39ft)
Artificial Intelligence					
Face Detection	Support face image capture				
Perimeter Protection	Tripwire, intrusion, fast moving, loitering detection, parking detection and people gathering				
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				
General Intelligence	Object Abandoned/Missing				
Heat Map	Yes				



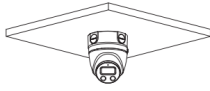
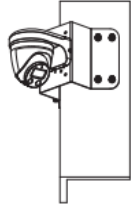
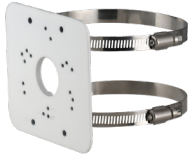
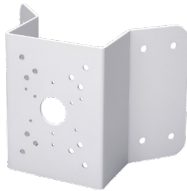
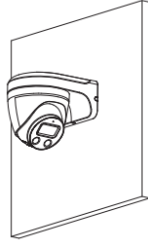
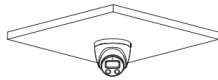



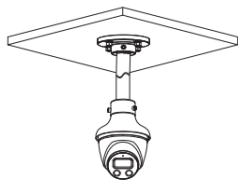
Audio	
Compression	G.711a, G.711Mu, G.726, AAC, G.723
Video	
Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
Streaming Cap	3 Streams
Resolution	2592×1944/2688×1520/2560×1440/2304×1296/1080P (1920×1080)/1.3M(1280×960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Frame Rate	2592×1944 (1 fps–20 fps), 2560×1440 (1fps–25/30 fps);1920 × 1080 (1 fps–50/60 fps)
Main stream:	D1 (1 fps–20/30 fps); D1 (1 fps–50 fps)
Sub stream:	1080P (1 fps–17 fps)
Third stream:	
Bit Rate Control	H.264: 32–8192 Kbps H.265: 19 Kbps–8192 Kbps CBR/VBR
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/natural/street lamp/outdoor/manual/
Gain Control	Auto/Manual
Noise Red.	3D DNR
Motion	Off / On (4 Zone, Rectangle)
ROI	Off/On (4 Zone)
Smart IR	Yes
EIS	N/A
Defog	Yes
Mirror	Off/On
Flip	0°/90°/180°/270°
Privacy Masking	Off/On (4 Area, Rectangle)
Network	
Network	RJ-45 (10/100Base-T)
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;PPPoE;802.1x;SNMP
Interoperability	ONVIF; CGI; P2P; Milestone; Genetec
Streaming	Unicast/Multicast
User/Host	20
Edge Storage	NAS;FTP;SFTP; Micro SD card 256 GB
Web Viewer	IE, Chrome, Firefox, Safari
Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android

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Technical Specifications

Certifications		Environmental	
Certifications	CE-LVD: EN60950-1; 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	Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Electrical		Storage temp	-30° C to +60° C (-22° F to +140° F)
Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)	Portection	IP67
Consumption	< 7.2W	Construction	
Electrical		Casing	Metal
Interface	Built-in MIC	Dimensions	Φ106 mm × 93.6 mm (4.17" × 3.69")
RS485 / Alarm	N/A	Net Weight	0.55 kg (1.21 lb)
		Gross Weight	0.71 kg (1.57 lb)

Accessories (optional)

Junction Box: PFA130-E	Wall Mount: PFB204W	Junction Mount	Corner Mount
			
Pole Mount: PFA152-E	Corner Mount: PFA151	Wall Mount	Ceiling Mount
			
Ceiling Mount: PFB220C	Mount Adaptor: PFA106	Pole Mount	Ceiling Mount
			

* The information contained in this document (photos, drawings, dimensions, specifications) may be subject to change without prior notice.

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