OSIRIS

OS-I3-EENS5M-MST-V3 | 5MP IR Vari-focal Eyeball Network Camera



System Overview

Osiris 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

- 5-MP 1/2.7" CMOS image sensor, excellent low luminance perfor mance and high definition of images.
- Outputs max. 5 MP (2960 × 1668) @20 fps and supports 4MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 40 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent detection: Intrusion, tripwire (support the classificati on and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- SMD 4.0, AI SSA.



Functions

SMD 4.0

Osiris Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

AI SSA

Osiris AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Osiris smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Osiris 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) are largely reduced.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dustproof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Osiris network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

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Technical Specifications

Camera					
Image Ser	ISOr	1/2.7" CMOS			
Max. Resolution		2960 (H) × 1668 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning S	Scanning System		Progressive		
Electronic	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s		
Min. Illumination		0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		40 m (131.23 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mou	nt	φ14			
Focal Length		2.7 mm-13.5 mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 99°–28° Vertical: 71°–21° Diagonal: 134°–35°			
Iris Contro		Fixed			
Close Focu	us Distance	0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.98 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)
D	Т	210.0 m (688.98 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)
Intelligen	ce				
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)			
AI SSA		Yes			
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events			
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+	
AI Coding	AI H.265 AI H.264	
Video Frame Rate	$\begin{array}{l} \mbox{Main stream: } 2880 \times 1620 @ (1-20) \mbox{ fps } / \\ 2960 \times 1668 @ (1-20) \mbox{ fps } / \\ 2688 \times 1520@ (1-25/30 \mbox{ fps}) \\ \mbox{Sub stream 1: } 704 \times 576 @ (1-25 \mbox{ fps}) / \\ 704 \times 480 @ (1-30 \mbox{ fps}) \\ \mbox{Sub stream 2: } 1920 \times 1080 @ (1-25/30 \mbox{ fps}) \\ \mbox{*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity} \end{array}$	
Stream Capability	3 streams	
Resolution	5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)	
Bit Rate Contro	CBR/VBR	
Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regionalcustom	
Gain Control	Auto	
Noise Reduction Motion Detection	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Image Stabilization	Electronic Image Stabilization (EIS)	
Region of Interest (Rol)	Yes (4 areas)	
Defog	Yes	
AFSA	Yes	
Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × 1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	

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Technical Specifications

Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm	a., fra, a., frina, f cin, a., 20, a., 25	
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Osiris card); net- work disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; volta- ge detection; defocus detection; SMD; safety 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; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Cyber Security	Video encryption; Firmware encryption; Con- figuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Ge- neration and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: 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	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 5.7 W (12 VDC); 6.4 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.9 W (12 VDC); 10.2 W (PoE)	

Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F) /Less than 95% RH			
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)			
Protection	IP67			
Structure				
Casing	Metal			
Product Dimensions	108.3 mm × Φ 122 mm (4.26" × Φ 4.80")			
Net Weight	715 g (1.58 lb)			
Gross Weight	915 g (2.02 lb)			

Accessories (optional)

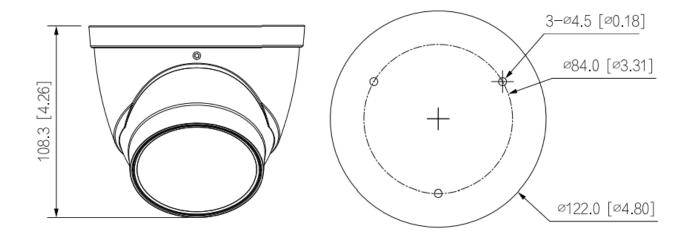
PFA137	PFA109	
Junction Box Bracket	Mount Adapter	
PFB220C	PFM321D	
Ceiling Mount Brack	12VDC 1A Power Adapter	
PFB205W-E	PFA152-E	
Wall Mount	Pole Mount	
PFM900-E	TF-P100	
Integrated Mount Tester	TLC SD Card	
	256GB ⊍ 42 Image: V30 ►	

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Dimensions (mm/inch)



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