



### **System Overview**

Osiris Series Network Camera greatly saves on bandwidth and storage space through its Al 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 Al SSA (Al 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.

- 5MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 5 MP (2960  $\times$  1668) @20 fps and supports 4MP (2688  $\times$  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, applica ble 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, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); max. 256 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 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 Al 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 dust-proof 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.



## **Technical Specifications**

Camera					
Image Ser	isor	1/2.7" CM	OS		
Max. Reso	lution	2960 (H) × 1668 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning !	System	Progressive			
Electronic	Shutter Speed	Auto/Manu	al 1/3 s—1/1	00,000 s	
Min. Illum	ination		PF1.5 (Color, PF1.5 (B/W, inator on)		
S/N Ratio		>56 dB			
Illuminatio	n Distance	40 m (131.	23 ft)		
Illuminato Control	r On/Off	Auto/Manu	al		
Illuminato	r Number	3 (IR LED)			
Pan/Tilt/Ro	otation Range	Pan: 0°-35 Tilt: 0°-80° Rotation: 0			
Lens					
Lens Type		Motorized \	/ari-focal		
Lens Mou	nt	ф14			
Focal Leng	jth	2.7 mm-13	3.5 mm		
Max. Aper	ture	re F1.5			
Field of Vi	ew	Horizontal: Vertical: 58 Diagonal: 1	°–17°		
Iris Contro	ol .	Fixed			
Close Focu	us Distance	0.8 m (2.62	2 ft)		
	Lens	Detect	Observe	Recognize	Identify
DORI	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)
Δ	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	(			k up the hun terested in fr	
Smart Sea	rch	refine intell		ert NVR to pe event extrac	

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+
Al Coding	AI H.265 AI H.264
Video Frame Rate	Main stream: $2880 \times 1620$ @ $(1-20)$ fps / $2960 \times 1668$ @ $(1-20)$ fps / $2688 \times 1520$ @ $(1-25/30$ fps) Sub stream 1: $704 \times 576$ @ $(1-25$ fps)/ $704 \times 480$ @ $(1-30$ fps) Sub stream 2: $1920 \times 1080$ @ $(1-25/30$ 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	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; regional custom
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 (RoI)	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



## **Technical Specifications**

Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
Alarm Event	-ZAS: No SD card; SD card full; SD card error; service life warning (only supported by Osiris card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS:	
	No SD card; SD card full; SD card error; service life warning (only supported by Osiris card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage 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; 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	
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	

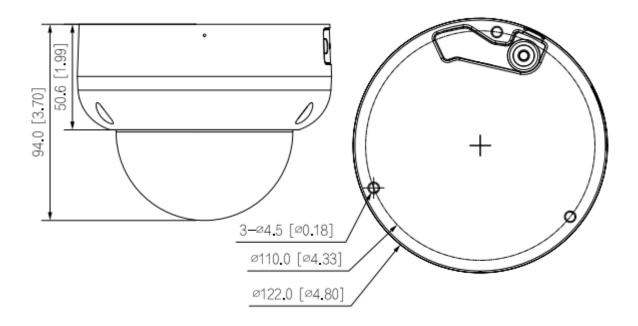
Port		
Audio Input	1 channel (RCA port) (Only - ZAS supports)	
Audio Output	1 channel (RCA port) (Only - ZAS supports)	
Alarm Input	1 channel in: 5 mA 3–5 VDC (Only - ZAS supports)	
Alarm Output	1 channel out: 300 mA 12 VDC (Only - ZAS supports)	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 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; IK10	
Structure		
Casing	Metal	
Product Dimensions	94 mm × Φ122 mm (3.70" × Φ4.80")	
Net Weight	713 g (1.57 lb)	
Gross Weight	986 g (2.17lb)	

## **Accessories (optional)**

PFA137 Junction Box Bracket	PFA109 Mount Adapter	PFB220C Ceiling Mount Brack	
PFM321D 12VDC 1A Power Adapter	PFB203W Wall Mount	PFA152-E Pole Mount	
PFM900-E Integrated Mount Tester	TF-P100 TLC SD Card		
	256 <sub>68</sub> U 42		



### **Dimensions (mm/inch)**



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

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