



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.

- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP ( $3840 \times 2160$ ) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 60 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.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- 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 facilitates installation.
- IP67, IK10 (optional) 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 Sensor		1/2.8" CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		1 GB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		60 m (196.85 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens	Lens					
Lens Type		Motorized vari-focal				
Lens Mount		Ф14				
Focal Length		2.7 mm-13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35°				
Iris Contro	ol	Fixed				
Close Foci	us Distance	0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI	W	88.3 m (289.70 ft)	35.3 m (115.81 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)	
	Т	289.7 m (950.46 ft)	115.7 m (379.59 ft)	57.9 m (189.96 ft)	29.0 m (95.14 ft)	
_	Intelligence					
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	Main stream: $3840 \times 2160$ @ $(1-25/30)$ 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	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $2688 \times 1520$ 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 Dahua 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 Dahua 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			

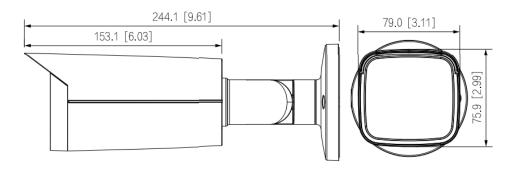
1 channel (RCA port) (Only - ZAS supports)	
1 channel (RCA port) (Only - ZAS supports)	
1 channel in: 5 mA 3–5 VDC (Only - ZAS supports)	
1 channel out: 300 mA 12 VDC (Only - ZAS supports)	
Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE)	
°F to 140 °F) /Less	
F to 140°F)	
IP67	
244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 3.00") (L × W × H)	
820 g (1.81 lb)	

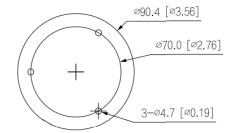
## **Accessories (optional)**

PFA130-E	PFA135
Junction Box	Junction Box
PFA152-E	PFM321D
Pole Mount	12VDC 1A Power Adapter
PFM900-E	TF-P100
Integrated Mount Tester	TLC SD Card
altua 1	256 <sub>GB</sub> UA2



## **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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