

## OS-PTZ-I4ESN25-HILS | 4MP 25x Starlight IR Network PTZ Camera



- 1/2.8" STARVIS™ CMOS.
- 25x optical zoom.
- Starlight technology.
- Max. 25/30fps@4M.
- IR distance up to 100 m.
- Perimeter protection.
- Face detection.
- Quick Pick.
- SMD 4.0.
- IP66.



Launched by Osiris Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Osiris's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

### System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

### Functions

#### Starlight Technology

With advanced image processing technology and optical technology, Osiris Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

#### Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

#### Face Detection

Osiris Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

#### 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.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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### Technical Specifications

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) × 1440 (V)			
ROM	4 GB			
RAM	1 GB			
Electronic Shutter Speed	1/1 s–1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)			
Illumination Distance	100 m (328.08 ft) (IR)			
Illuminator On/ Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	4 (IR)			
Lens				
Focal Length	5 mm–125 mm			
Max. Aperture	F1.6–F3.6			
Field of View	H: 53.1°–3.4°; V: 30.4°–1.9°; D: 59.3°–3.9°			
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	1 m–9 m (3.28 ft–29.53 ft)			
Iris Control	Auto			
DORI Distance	Detect	Observe	Recognize	Identify
	2161.4 m (7091.21 ft)	864.6 m (2836.61 ft)	432.3 m (1418.30 ft)	216.1 m (708.99 ft)
PTZ				
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°			
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s			
Preset Speed	Pan: 240°/s Tilt: 200°/s			
Preset	300			
Tour	8 (up to 32 presets per tour)			
Pattern	5			
Scan	5			

Power-off Memory	Yes
Idle Motion	Pattern; Preset; Scan; Tour
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)
Intelligence	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Face Detection	Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first
SMD	Yes
Quick Pick	Yes
Video	
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Streaming Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @ (1–25/30 fps) Sub stream 1: D1/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @ (1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 96–14,848 Kbps H265: 38–8,960 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR

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### Technical Specifications (2)

Video (2)	
Motion Detection	Yes
Region of Interest (Rol)	Yes
Image Stabilization	Electronic (EIS)
Defog	Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥ 55 dB
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Network	
Network Port	1 × RJ-45 (10/100 Base-T)
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
Interoperability	RTMP; CGI; SDK; ONVIF (Profile S&G&T); P2P
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (512 GB); FTP/SFTP; NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions
Management Software	DSS; DMSS
Mobile Client	iOS; Android
Certification	
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4 UL: UL62368-1
Port	
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT, bare wire)
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input

Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Alarm I/O	2/1
Audio I/O	1/1
Power	
Power Supply	12 VDC/3A±10% PoE (802.3at)
Power Consumption	Basic: 9 W Max.: 20 W (Illuminator+alarm+PTZ)
Environment	
Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	≤ 95%
Storage Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Storage Humidity	≤ 95%
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	270.4 mm × Φ160 mm (10.65" × Φ6.30")
Net Weight	2.4 kg (5.29 lb)
Gross Weight	3.9 kg (8.60 lb)

### Accessories (included)

#### Wall Mount Bracket PFB305W

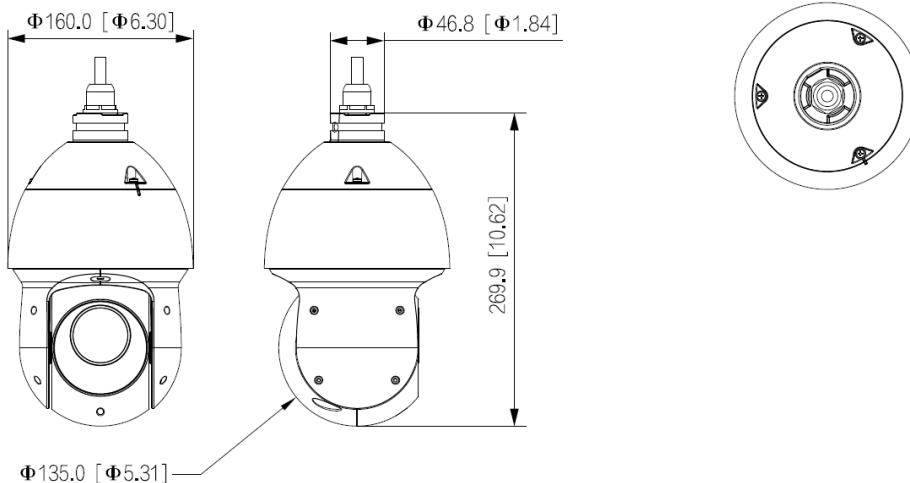


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### Accessories (optional)

Power Adapter DC 12 V/3A	Junction Box PFA120	Mount Adapter PFA111
		
Ceiling Mount Bracket PFB300C	Ceiling Mount Bracket PFB301C	Corner Mount Bracket PFA151
		
Parapet Mount Bracket PFB303S	Plane Mount Bracket PFB301S-E	Pole Mount Bracket PFA150
		

### Dimensions (mm/inch)



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