

# DH-EPT9A1825-HNR-F

8MP 25x Starlight IR Explosion-proof Camera



- 1/1.8" 8Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- 316L stainless steel housing
- Starlight technology
- H.265/H.264 Triple-stream Encoding
- Max.25/30fps@2560P
- IP68
- Wiper



## Series Overview

Designed with stainless steel, cameras in the explosion-proof series are highly durable, working stably in environments with dust and flammable and explosive gas. These cameras are explosion proof, producing smooth, high-definition videos through their integrated system. The series received ATEX and IECEx certification, and is highly suitable for use in the petroleum industry, petrochemical industry and more.

## Functions

### Starlight Technology

Dahua Starlight technology utilizes advanced image processing and optical technologies to deliver clear videos, even in low-lighting environments. This technology is extensively employed across a range of settings that have inadequate lighting.

### Protection (IP68, TVS 6000 V)

IP68, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

### Technical Specification

<b>Camera</b>					
Image Sensor	1/1.8" CMOS				
Pixel	8 MP				
Max. Resolution	3840 (H) × 2160 (V)				
ROM	4 GB				
RAM	1 GB				
Electronic Shutter Speed	1 s–1/30,000 s				
Scanning System	Progressive				
Min. Illumination	0.005 lux@F1.5 (Color, 30 IRE); 0.0005 lux@F1.5 (B/W, 30 IRE); 0 lux (illuminator on)				
Illumination Distance	100 m (328.08 ft) (IR)				
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off				
Illuminator Number	4 (IR light)				
Wiper	Wiper				
<b>Lens</b>					
Focal Length	5.4 mm–135 mm				
Max. Aperture	F1.6–F4.0				
Field of View	H: 61.6°–3.6°; V: 35.7°–2°; D: 66.6°–4°				
Optical Zoom	25×				
Focus Control	Auto; semi-auto; manual				
Close Focus Distance	0.5 m–7 m (1.64 ft–22.97 ft)				
Iris Control	Auto; manual; iris prio				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	5.4 mm–135 mm	2406 m ( 7893.7 0 ft)	950.3 m ( 3117.7 8 ft)	481.2 m ( 1578.7 4 ft)	240.6 m ( 789.37 ft)
*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					
<b>PTZ</b>					
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –90° to +90°				
Manual Control Speed	Pan: 0.1°/s–40°/s; Tilt: 0.1°/s–40°/s				
Preset Speed	Pan: 0.1°/s–40.5°/s; Tilt: 0.1°/s–44.1°/s				
Preset	300				
Tour	8 (up to 32 presets per tour)				
Pattern	5				

Scan	5
Power-off Memory	Yes
Idle Motion	Preset;Pattern;Tour;Scan
PTZ Protocol	DH-SD Pelco-P/D

### Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification
Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.
SMD	SMD 4.0
Quick Pick	Yes

### Active Deterrence

Sound Warning	Offers 11 sound alarms and supports importing custom sound alarms. Sound can be set from 0%–100%. Play times can be set from 1–10.
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### Video

Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
Streaming Capability	3 streams
Resolution	8M (3840 × 2160); 4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 8M/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/CIF @(1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 128 kbps–166,384 kbps H265: 51 kbps–10,240 kbps
Day/Night	Auto (ICR); Color/B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual; gain prio
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes

Image Stabilization	Electronic Image Stabilization (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; Multiple colors available
S/N Ratio	≥55 dB

## Network

Network Port	Registered jack (RJ) (10/100 Base-T)
Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMP;IGMP;ARP;RTCP;RTP;PPPoE;RTMP;Bonjour;NFS
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK
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 52 and later versions; Safari 10 and later versions
Management Software	DMSS;DSS Pro
Mobile Client	iOS;Android

## Certification

Certifications	ATEX: EN 60079-0/EN 60079-1/EN 60079-31 IECEX: IEC 60079-0/IEC 60079-1/IEC 60079-31
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## Port

RS-485	1 (baud rate: 1200 bps–9600 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT, bare wire)
Alarm Input	2 (on-off value input: 0–5 VDC)
Alarm Output	1 channel
Alarm Linkage	Recording; send email; preset; tour; pattern; alarm digital output; audio
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Optical Fiber	100 M single fiber port

## Power

Power Supply	100–240 VAC, 1 A, 50/60 Hz
Power Consumption	Basic: 15 W; Max: 60 W (illuminator + heater + PTZ + wiper)

## Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%

Protection	IP66;IP68;TVS 6000 V lightning proof; surge protection; voltage transient protection
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

## Structure

Casing Material	SUS316L
Product Dimensions	334.1 mm × 303 mm × 426 mm (13.15" × 11.93" × 16.77")
Net Weight	23.5 kg (51.81 lb)
Gross Weight	46.4 kg (102.30 lb)

## Ordering Information

Type	Model	Description
Explosion Proof Pan Tilt Camera	DH-EPT9A1825-HNR-F	8MP 25x Starlight IR Explosion-proof Camera
Accessories (Optional)	DH-SDPJ008	Wall Mount Bracket-DH-SDPJ008-SUS 316L
	ZANXG-1.5	Explosion-proof flexible conduit-M25-1500-316L
	ZAEX02	Explosion-proof Cable Gland
	CZ300	Explosion-proof Control Box

## Accessories

Optional:



CZ300  
Explosion-proof Control Box



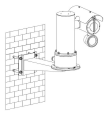

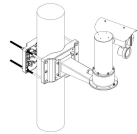
DH-SDPJ008  
Wall Mount Bracket-DH-SDPJ008-SUS 316L



ZAEX02  
Explosion-proof Cable Gland



ZANXG-1.5  
Explosion-proof flexible conduit-M25-1500-316L

Wall Mount	Plane Mount	Pole Mount (Vertical)
DH-SDPJ008		PFA153+DH-SDPJ008
		

**Dimensions (mm[inch])**

