

DH-SD49825GB-HNR

8MP 25x Starlight IR Network PTZ Camera



Launched by Dahua 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 Dahua'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, Dahua 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.

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, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

- 1/2.8" 8Megapixel STARVIS™ CMOS.
- 25x optical zoom.
- Starlight technology.
- Max. 25/30fps@8M.
- IR distance up to 100 m.
- $\boldsymbol{\cdot}$ Perimeter protection.
- Face detection.
- Quick Pick.
- SMD 4.0.
- IP66.



Face Detection

Dahua 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

Dahua 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.

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Technical Specification			Supports face detection, optimization, tracking,
Camera		Face Detection	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 Supports up to 5 face databases; registers person
Image Sensor	1/2.8" CMOS		
Pixel	8 MP		
Max. Resolution	3840 (H) × 2160 (V)		
ROM	4 GB		
RAM	1 GB		one by one or in batches; sets face similarity; compares faces with 10,000 faces.
Electronic Shutter Speed	1/1 s-1/30,000 s	SMD	Yes
Scanning System	Progressive	Quick Pick	Yes
	Color: 0.005 lux@F1.6	Video	
Min. Illumination	B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Illumination Distance	100 m (328.08 ft) (IR)	Streaming Capability	3 streams
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off		4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080);
Illuminator Number	4 (IR)	Resolution	720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640×480);CIF (352 × 288/352 × 240)
Lens			Main stream: 4K/4M/1080p/1.3M/720p (1–25/30
Focal Length	5 mm–125 mm	Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps)
Max. Aperture	F1.6-F3.6		Sub stream 2: 1080p/1.3M/720p/CIF (1-25/30 fps)
Field of View	H: 53.1°–3.4°; V: 30.4°–1.9°; D: 59.3°–3.9°	Bit Rate Control	CBR/VBR
Optical Zoom	25×	Video Bit Rate	H.264: 3,328 kbps–8,192 kbps H.265: 1,280 kbps–8,192 kbps
Focus Control	Auto; semi-auto; manual	Day/Night	Auto (ICR)/Color/B/W
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)	BLC	Yes
Iris Control	Auto; manual	WDR	Yes
DORI Distance	Detect Observe Recognize Identify	HLC	Yes
DORI Distance	2161.4 m864.6 m432.3 m216.1 m(7091.21 ft)(2836.61 ft)(1418.30 ft)(708.99 ft)	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
PTZ		Gain Control	Auto; manual
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°	Noise Reduction	2D NR; 3D NR
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s	Motion Detection	Yes
Preset Speed	Pan: 240°/s	Region of Interest (RoI)	Yes
·	Tilt: 200°/s	Defog	Electronic
Preset		Digital Zoom	16×
Tour	8 (up to 32 presets per tour)	Image Rotation	180°
Pattern	5	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Scan	5 Yes	S/N Ratio	≥ 55 dB
Power-off Memory Idle Motion		Audio	
	Pattern; Preset; Scan; Tour DH-SD	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;
PTZ Protocol	Pelco-P/D(Auto recognition)		G722.1; G729; G723
Intelligence		Network	1DL 45 (10/100 D T)
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Network Port	1 × RJ-45 (10/100 Base-T)

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Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTP5; 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			
Audio Output	1 channel			
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: 9.8 W Max.: 20 W (Illuminator + alarm + PTZ)			
Environment				
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
Operating Humidity	≤ 95%			
Storage Temperature	–40 °C to +65 °C (–40 °F to +149 °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)			

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-SD49825GB-HNR	8MP 25x Starlight IR Network PTZ Camera			
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Accessories	PFB305W	Wall Mount Bracket			
	DC 12 V/3A	Power Adapter			
	PFA120	Junction Box			
	PFA111	Mount Adapter			
	PFB300C	Ceiling Mount Bracket			
	PFB301C	Ceiling Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			
	PFB301S-E	Plane Mount Bracket			
	PFA150	Pole Mount Bracket			

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC 12 V/3A

Power Adapter

PFB300C

Ceiling Mount Bracket

PFB303S

Parapet Mount

. Bracket

PFA120

Junction Box

PFB301C

Ceiling Mount Bracket

PFB301S-E

Plane Mount

Bracket



PFA111 Mount Adapter



PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket

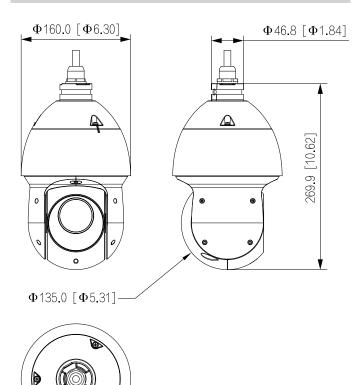
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Installation

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm [inch])

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