

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.
- Perimeter protection.
- Face detection.
- SMD 4.0.
- IP66.

Wiz Sense



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		PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)
Camera		Intelligence	
Image Sensor	1/2.8" CMOS	5	Tripwire; intrusion; crossing fence detection;
Pixel	8 MP	IVS (Perimeter Protection)	loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Max. Resolution	3840 (H) × 2160 (V)		Supports face detection, optimization, tracking,
ROM	4 GB	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
RAM	1 GB		
Electronic Shutter Speed	1/1 s-1/30,000 s		
Scanning System	Progressive	photo. Capturing strategies include real-time capturing, optimization, and quality first Supports up to 5 face databases; registers person one by one or in batches; sets face similarity; compares faces with 10,000 faces.	
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)	SMD	SMD 4.0
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off		It triggers the IVS rule when a target is detected and
Illuminator Number	4 (IR)	Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.
Lens		Video	
Focal Length	5 mm–125 mm	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Max. Aperture	F1.6-F3.6	Streaming Capability	3 streams
Field of View	H: 53.1°–3.4°; V: 30.4°–1.9°; D: 59.3°–3.9°	Resolution	4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640×480);CIF (352 × 288/352 × 240)
Optical Zoom Focus Control	25× Auto; semi-auto; manual		
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	Video Frame Rate	Main stream: 4K/4M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps)
Iris Control	Auto; manual		
			Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps)
	Detect Observe Recognize Identify 2161.4 m 864.6 m 432.3 m 216.1 m	Bit Rate Control	CBR/VBR
	(7091.21 ft) (2836.61 ft) (1418.30 ft) (708.99 ft) *DORI (Detect, Observe, Recognize, Identify) is	Video Bit Rate	H.264: 3,328 kbps–8,192 kbps H.265: 1,280 kbps–8,192 kbps
DORI Distance	a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish	Day/Night	Auto (ICR)/Color/B/W
	persons or objects within a covered area. The numbers in this table do not reflect intelligent	BLC	Yes
	function distances. For intelligent function distances, refer to installation and commissioning manual/	WDR	DWDR
	project design tool.	HLC	Yes
	Pan: 0° to 360° endless	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Pan/Tilt Range	Tilt: -15° to +90°, auto flip 180°	Gain Control	Auto; manual
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s	Noise Reduction	2D NR; 3D NR
Preset Speed	Pan: 240°/s Tilt: 200°/s	Motion Detection	Yes
Preset	300	Region of Interest (RoI)	Yes
Tour	8 (up to 32 presets per tour)	Defog	Electronic
Pattern	5	Digital Zoom	16×
Scan	5	Image Rotation	180°
Power-off Memory	Yes	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
	Pattern; Preset; Scan; Tour	S/N Ratio	≥ 55 dB

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Audio

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 Pro; 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 +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)

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-SD49825GB-HNR	8MP 25x Starlight IR Network PTZ Camera			
	SD49825GB-HNR	8MP 25x Starlight IR Network PTZ Camera			
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			

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Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC 12 V/3A Power Adapter



PFA120 Junction Box



PFB300C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket







PFB301C Ceiling Mount Bracket

PFB301S-E Plane Mount Bracket

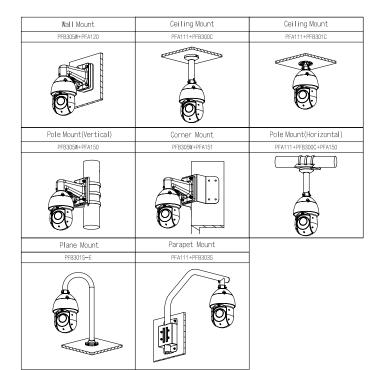


PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket

Installation



Φ46.8 [Φ1.84]

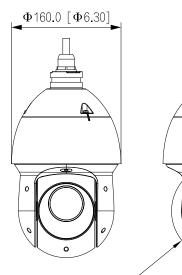
269.9 [10.62]

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Dimensions (mm [inch])



Φ135.0 [Φ5.31]

