

DH-SD49825GB-HNR

8MP 25x Starlight IR Network PTZ Camera



Wiz Sense

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.
- · 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.

Technical Specification			Supports face detection, optimization, tracking,	
Camera			capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports	
Image Sensor	1/2.8" CMOS		attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate,	
Pixel	8 MP	Face Detection	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 one by one or in batches; sets face similarity;	
Max. Resolution	3840 (H) × 2160 (V)			
ROM	4 GB			
RAM	1 GB		compares faces with 10,000 faces.	
Electronic Shutter Speed	1/1 s-1/30,000 s	SMD	Yes	
Scanning System	Progressive	Quick Pick	Yes	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)	Video Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265;	
Illumination Distance	100 m (328.08 ft) (IR)		MJPEG(Sub Stream); Smart H.264+ 3 streams	
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off	Streaming Capability	4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 ×	
Illuminator Number	4 (IR)	Resolution	1536); 3M (2304 × 1296); 1080p (1920 × 1080); 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	
	2161.4 m 864.6 m 432.3 m 216.1 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	Pan: 0° to 360° endless	Gain Control	Auto; manual	
Pan/Tilt Range	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 Tilt: 200°/s	Region of Interest (RoI)	Yes	
Preset	300	Defog	Electronic	
Tour	8 (up to 32 presets per tour)	Digital Zoom	16×	
Pattern	5	Image Rotation	180°	
Scan	5	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view	
Power-off Memory	Yes	S/N Ratio	≥ 55 dB	
Idle Motion	Pattern; Preset; Scan; Tour	Audio	Audio	
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Intelligence				
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)	

Wiz Sense | DH-SD49825GB-HNR

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		
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")		

2.4 kg (5.29 lb)

3.9 kg (8.60 lb)

Net Weight

Gross Weight

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		

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



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

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])

