

DH-SD49425DB-HNY-GQ-LA

4MP 25x Starlight IR 4G 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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@4M.
- IR distance up to 100 m.
- Perimeter protection.
- Face detection.
- SMD 3.0.
- IP66.
- 4G.













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.

Protection (IP66, TVS 6000 V)

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

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

4G Transmission

4G Transmission

The camera supports 4G signal transmission and the following network types: LTE/WCDMA/GSM. And it supports the following frequency band respectively:

LTE-TDD: Dual-band Band 38/40

LTE-FDD: Eleven-band Band 1/2/3/4/5/7/8/28/12/17/66

WCDMA: Hexa-band Band1/2/3/4/5/8 GSM: Quad-band Band 1/3/5/8.

SMD

Empowered by Deep-Learning Algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Technical Specification			Supports face detection, capturing snap
Camera			and enhancing face images. Face cutout offered, where you can cutout one face
Image Sensor	1/2.8" CMOS	Face Detection	and customize the size to be a one-inch supported methods for capturing snaps
Pixel	4 MP	6145	time capturing and quality first
Max. Resolution	2560 (H) × 1440 (V)	SMD	SMD 3.0
ROM	256 MB	Auto Patrol	It triggers the IVS rule when a target is of makes the camera link with the PTZ to reposition of the target and patrol based.
RAM	512 MB	Video	
Electronic Shutter Speed	1/1 s-1/30,000 s	Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.
Scanning System	Progressive	·	MJPEG(Sub Stream);Smart H.264+
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)	Streaming Capability Resolution	3 streams 4 MP (2560 × 1440); 3 MP (2304 × 1296 (1920 × 1080); 1.3 MP (1280 × 960); 720 (1920 × 1080); 1.3 MP (1280 × 960); 720 (1920 × 1080); 1.3 MP (1280 × 960); 720 (1920 × 1080);
Illumination Distance	100 m (328.08 ft) (IR)		720); D1 (704 × 576); CIF (352 × 288) Main stream: 4 MP/3 MP/1080p/1.3 MP/720
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Video Frame Rate	(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 f Sub stream 2: 720p@(1–25/30 fps)
Illuminator Number	3 (IR)	Bit Rate Control	CBR/VBR
Lens		Video Bit Rate	H.264: 2816 kbps–13056 kbps
Focal Length	5 mm-125 mm		H.265: 1024 kbps-7936 kbps
Max. Aperture	F1.6-F3.6	Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 51.9°-3.0°; V: 39.7°-2.2°; D: 63.1°-3.7°	BLC WDR	Yes 120 dB
Optical Zoom	25×	HLC	Yes
Focus Control	Auto; semi-auto; manual		Auto; indoor; outdoor; tracking; manual
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)	White Balance	lamp; natural light; street lamp
Iris Control	Auto; manual	Gain Control	Auto; manual
	Detect Observe Recognize Identify	Noise Reduction	2D NR; 3D NR
DORI Distance	2,500 m 987.5 m 500 m 250 m	Motion Detection	Yes
DT7	(8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	Region of Interest (RoI)	Yes
PTZ	Pan: 0° to 360° endless	Image Stabilization	Electronic (EIS)
Pan/Tilt Range	Tilt: -15° to +90°, auto flip 180°	Defog	Electronic
Manual Control Speed	Pan: 0.1°/s–80°/s Tilt: 0.1°/s–80°/s	Digital Zoom	16×
Preset Speed	Pan: 80°/s; Tilt: 80°/s	Image Rotation	180°
Preset	300		Up to 24 areas can be set, with up to 8 are
Tour	8 (up to 32 presets per tour)	Privacy Masking	same view; multiple colors available
Pattern	5	S/N Ratio	≥55 dB
Scan	5	Audio	
Power-off Memory	Yes	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2 PCM
Idle Motion	Pattern;Preset;Scan;Tour	Network	. (14)
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)	Network Port	RJ-45 (10/100 Base-T)
Intelligence			
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering;	Carrier Network System	4G;3G;2G

fast moving; parking detection; people gathering; vehicle/human alarm classification

Wireless Carrier Frequency Band	LTE-TDD: Dual-band Band 38/40 LTE-FDD: Eleven-band Band 1/2/3/4/5/7/8/28/12/17/66 WCDMA: Hexa-band Band1/2/3/4/5/8 GSM:Quad-band Band 1/3/5/8			
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;R TP;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICM P;UDP;IGMP;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP			
Interoperability	CGI;SDK;ONVIF (Profile S&G&T)			
Streaming Method	Unicast/Multicast			
User/Host	20 (total bandwidth: 64 M)			
Storage	FTP; Micro SD card (512 GB); NAS			
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions			
Management Software	DSS;DMSS;NVR;Smart PSS;IVSS			
Mobile Client	iOS;Android			
Certification				
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014			
Port				
RS-485	1 (baud rate: 1200 bps–9600 bps)			
Audio Input	1 channel			
Audio Output	1 channel			
Alarm Linkage	Capture; recording; send email; preset; pattern; tour; 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, 3 A (-10% to +25%)			
Power Consumption	Deep sleep: 0.05 W light sleep: 2.5 W Basic: 3.75 W (not pulling stream in 4G); 4.54 (pulling stream in 4G); 7.98 W (illuminator+not pulling stream in 4G); 8.77 W (illuminator+pulling stream in 4G) Max: 15.49 W (illuminator+PTZ+pulling stream in 4G)			
Environment				
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
Operating 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	2.6 kg (5.73 lb)			
Gross Weight	4.2 kg (9.26 lb)			

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD49425DB-HNY- GQ-LA	4MP 25x Starlight IR 4G WizSense Network PTZ Camera		
	SD49425DB-HNY-GQ-LA	4MP 25x Starlight IR 4G WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA126	Junction Box		
	PFA111	Mount Adapter		
	PFB300C	Ceiling Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC 12 V/3A Power Adapter



PFA126 Junction Box



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket

PFA150

Pole Mount

Bracket



PFB301C Ceiling Mount Bracket



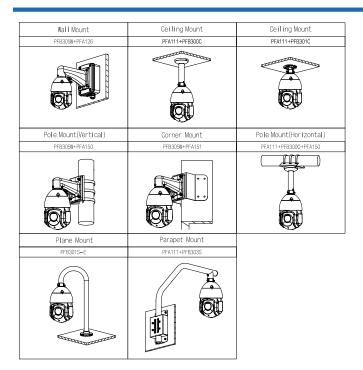
PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm [inch])

