



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

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	Camera		and enhancing face images. Face cutout offered, where you can cutout one face a
Image Sensor	1/2.8" CMOS		and customize the size to be a one-inch p supported methods for capturing snapsh
Pixel	4 MP		time capturing and quality first.
Max. Resolution	2560 (H) × 1440 (V)	SMD	Yes
ROM	256 MB	Video	
RAM	512 MB	Video Compression	H.264H;H.264B;Smart H.265+;H.264;H.26 MJPEG(Sub Stream);Smart H.264+
Electronic Shutter Speed	1/1 s-1/30,000 s	Streaming Capability	3 streams
Scanning System	Progressive	Streaming Capability	4 MP (2560 × 1440); 3 MP (2304 × 1296);
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)	Resolution	(1920 × 1080); 1.3 MP (1280 × 960); 720p 720); D1 (704 × 576); CIF (352 × 288) Main stream: 4 MP/3 MP/1080p/1.3 MP/
Illumination Distance	100 m (328.08 ft) (IR)	Video Frame Rate	(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Bit Rate Control	CBR/VBR
Illuminator Number Lens	3 (IR)	Video Bit Rate	H.264: 2816 kbps–13056 kbps H.265: 1024 kbps–7936 kbps
Focal Length	5 mm–125 mm	Day/Night	Auto (ICR)/Color/B/W
Max. Aperture	F1.6-F3.6	BLC	Yes
5: 11 Oc	H: 51.9°–3.0°;	WDR	120 dB
Field of View	V: 39.7°-2.2°; D: 63.1°-3.7°	HLC	Yes
Optical Zoom	25×	White Balance	Auto; indoor; outdoor; tracking; manual; lamp; natural light; street lamp
Focus Control	Auto; semi-auto; manual	Gain Control	Auto; manual
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)	Noise Reduction	2D NR; 3D NR
Iris Control	Auto; manual	Motion Detection	Yes
DORI Distance	Detect Observe Recognize Identify	Region of Interest (RoI)	Yes
DONI DISCANCE	2,500 m 987.5 m 500 m 250 m (8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	Image Stabilization	Electronic (EIS)
PTZ		Defog	Electronic
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°	Digital Zoom	16×
Manual Control Speed	Pan: 0.1°/s-80°/s	Image Rotation	180°
Preset Speed	Tilt: 0.1°/s-80°/s Pan: 80°/s; Tilt: 80°/s		Up to 24 areas can be set, with up to 8 are
Preset	300	Privacy Masking	same view; multiple colors available
Tour	8 (up to 32 presets per tour)	S/N Ratio	≥55 dB
Pattern	5	Audio	
Scan	5	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2;
Power-off Memory	Yes	·	PCM
Idle Motion	Pattern; Preset; Scan; Tour	Network Network Port	DI 4E /10/100 Page T\
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)		RJ-45 (10/100 Base-T)
Intelligence		Carrier Network System	4G;3G;2G
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; 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



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



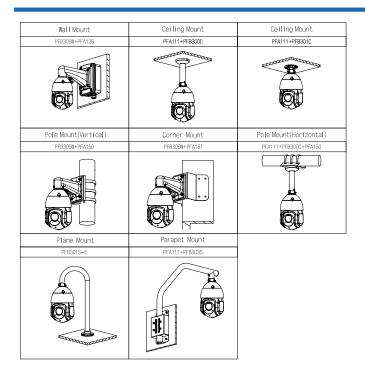
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm [inch])

