

DH-SD49425DB-HNY-GQ-EAU

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: Hepta-band Band 1/3/5/7/8/20/28

WCDMA: Tri-band Band 1/5/8 GSM: Tri-band Band 850/900/1800.

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.

Idle Motion

Pattern; Preset; Scan; Tour

Technical Specification				PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)
Camera				Intelligence	
Image Sensor	1/2.8" CMOS 4 MP			Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object;	
Pixel				IVS (Perimeter Protection)	fast moving; parking detection; people gathering; vehicle/human alarm classification
Max. Resolution	2560 (H) × 1440 (V)			Face Detection	Supports face detection, capturing snapshots, and enhancing face images. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing and quality first.
ROM	256 MB				
RAM	512 MB				
Electronic Shutter Speed	1/1 s-1/30,000 s			SMD	SMD 3.0
Scanning System	Progressive				It triggers the IVS rule when a target is detected and
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)			Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
Illumination Distance	100 m (328.08 ft) (IR)			Video	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off			Video Compression	H.264H; H.264B;Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Illuminator Number	3 (IR)			Streaming Capability	3 streams
Lens	5 125			Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Focal Length	5 mm–125 mm				Main stream: 4M/3M/1080p/1.3M/720p @{1-25/30
Max. Aperture Field of View	F1.6–F3.6 H: 51.9°–3.0°; V: 39.7°–2.2°;			Video Frame Rate	fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)
Tield of View	V: 39.7 -2.2 ; D: 63.1°-3.7°			Bit Rate Control	CBR/VBR
Optical Zoom	25×			Video Bit Rate	H.264: 2816 kbps–13056 kbps H.265: 1024 kbps–7936 kbps
Focus Control	Auto; semi-auto; manual			Day/Night	Auto (ICR)/Color/B/W
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)			BLC	Yes
Iris Control	Auto; manual			WDR	120 dB
	Detect Observe	Ü	Identify	HLC	Yes
	2500 m 987.5 m 500 m 250 m (8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft) *DORI (Detect, Observe, Recognize, Identify) is		(820.21 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	ability of a person viewi	a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish			Auto; manual
	persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/			Noise Reduction	2D NR; 3D NR
				Motion Detection	Yes
PTZ	project design tool.			Region of Interest (RoI)	Yes
Pan/Tilt Range	Pan: 0° to 360° endless			Image Stabilization	Electronic (EIS)
rany filt 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			Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the
Tour	8 (up to 32 presets per tour)				same view; multiple colors available
Pattern	5			S/N Ratio	≥55 dB
Scan	5			Audio	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;
Power-off Memory	Yes			Audio Compression	PCM

Network				
Network Port	RJ-45 (10/100 Base-T)			
Carrier Network System	4G; 3G; 2G			
Wireless Carrier Frequency Band	LTE-TDD: Dual-band Band 38/40 LTE-FDD: Hepta -band Band 1/3/5/7/8/20/28 WCDMA: Tri-band Band 1/5/8 GSM: Tri-band Band 850/900/1800			
Max. Transmission Power	4G: Power class3: 23dBm ±2dB 3G: Power class3: 24dBm +1/-3dB 2G: Power class0: 30dBm ±2dB (GSM1800) Power class5: 33dBm ±2dB (GSM850/900)			
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	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 W (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-EAU	4MP 25x Starlight IR 4G WizSense Network PTZ Camera				
	SD49425DB-HNY-GQ-EAU	4MP 25x Starlight IR 4G WizSense Network PTZ Camera				
Accessories	PFB305W	Wall Mount Bracket				
	12 VDC, 3 A	Power Adapter				
	PFA126	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



PFA126 Junction Box



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



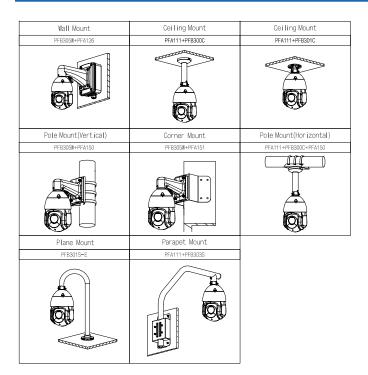
PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



Dimensions (mm [inch])

