

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.

Technical Specification			Supports face detection, capturing snapshots,
Camera		Face Detection	and enhancing face images. Face cutout is also offered, where you can cutout one face at a time
Image Sensor	1/2.8" CMOS		and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing and quality first.
Pixel	4 MP	SMD	SMD 3.0
Max. Resolution	2560 (H) × 1440 (V)		It triggers the IVS rule when a target is detected and
ROM	256 MB	Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
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.265; MJPEG(Sub Stream); Smart H.264+
Scanning System	Progressive	Streaming Capability	3 streams
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)	Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1
Illumination Distance	100 m (328.08 ft) (IR)		(704 × 576); CIF (352 × 288) Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30
Illuminator On/Off Control Illuminator Number	Zoom Prio; Manual; Auto; Off 3 (IR)	Video Frame Rate	fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)
Lens	- ()	Bit Rate Control	CBR/VBR
Focal Length	5 mm–125 mm	Video Bit Rate	H.264: 2816 kbps–13056 kbps 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°;	BLC	Yes
Outlined Zoom	D: 63.1°–3.7°	WDR	120 dB
Optical Zoom Focus Control	25x	HLC	Yes
Close Focus Distance	Auto; semi-auto; manual 0.1 m-0.5 m (0.33 ft-1.64 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium 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	2500 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	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
Tour	8 (up to 32 presets per tour)	S/N Ratio	≥55 dB
Pattern	5	Audio	
Scan Rower off Memory	Yes	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
Power-off Memory Idle Motion	Pattern; Preset; Scan; Tour	Network	
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)	Network Port	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: 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)			

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



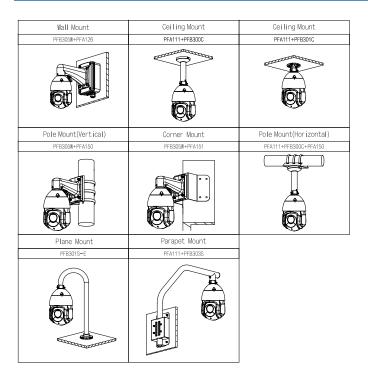
PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



Dimensions (mm [inch])

