

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



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Technical Specification			
Camera		F	
Image Sensor	1/2.8" CMOS		
Pixel	4 MP		
Max. Resolution	2560 (H) × 1440 (V)	9	
ROM	256 MB	'	
RAM	512 MB	١	
Electronic Shutter Speed	1/1 s-1/30,000 s	9	
Scanning System	Progressive	F	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)		
Illumination Distance	100 m (328.08 ft) (IR)	'	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	[
Illuminator Number	3 (IR)	,	
Lens			
Focal Length	5 mm-125 mm		
Max. Aperture	F1.6-F3.6	,	
Field of View	H: 51.9°-3.0°; V: 39.7°-2.2°; D: 63.1°-3.7°		
Optical Zoom	25×		
Focus Control	Auto; semi-auto; manual		
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)		
Iris Control	Auto; manual		
	Detect Observe Recognize Ide	ntify	
DORI Distance		00 m .21 ft)	
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°		
Manual Control Speed	Pan: 0.1°/s-80°/s Tilt: 0.1°/s-80°/s		
Preset Speed	Pan: 80°/s; Tilt: 80°/s		
Preset	300		
Tour	8 (up to 32 presets per tour)		
Pattern	5		
Scan	5		
Power-off Memory	Yes		
Idle Motion	Pattern; Preset; Scan; Tour		
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)		
Intelligence			
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification		

Supports face detection, capturing snapshot and enhancing face images. Face cutout is al offered, where you can cutout one face at a and customize the size to be a one-inch phot supported methods for capturing snapshots real-time capturing and quality first.	so time to. The	
SMD Yes		
Video		
Video Compression H.264H; H.264B;Smart H.265+; H.264; H.265 MJPEG(Sub Stream); Smart H.264+	;	
Streaming Capability 3 streams		
4M (2560 × 1440); 3M (2304 × 1296); 1080p Resolution × 1080); 1.3M (1280 × 960); 720p (1280 × 72 (704 × 576); CIF (352 × 288)		
Main stream: 4M/3M/1080p/1.3M/720p @(fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)	1–25/30	
Bit Rate Control CBR/VBR		
Video Bit Rate H.264: 2816 kbps—13056 kbps H.265: 1024 kbps—7936 kbps		
Day/Night Auto (ICR)/Color/B/W		
BLC Yes		
WDR 120 dB		
HLC Yes		
White Balance Auto; indoor; outdoor; tracking; manual; socilamp; natural light; street lamp	lium	
Gain Control Auto; manual		
Noise Reduction 2D NR; 3D NR		
Motion Detection Yes		
Region of Interest (RoI) Yes		
Image Stabilization Electronic (EIS)		
Defog Electronic		
Digital Zoom 16×		
Image Rotation 180°		
Privacy Masking Up to 24 areas can be set, with up to 8 areas same view; multiple colors available	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available	
S/N Ratio ≥55 dB		
Audio		
Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G7 PCM	22.1;	
Network		
Network Port RJ-45 (10/100 Base-T)		
Carrier Network System 4G; 3G; 2G		
Wireless Carrier Frequency Band WCDMA: Tri-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	3	



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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		
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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



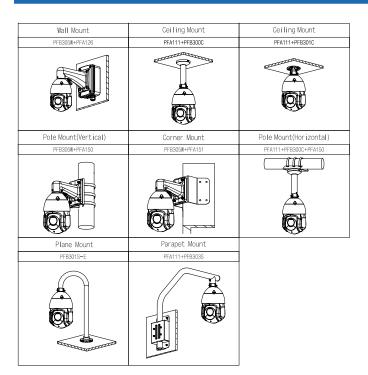
PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



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Dimensions (mm [inch])

