

DH-SD49225DB-HNY

2MP 25x Starlight IR 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

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Protection (IP66, TVS 6000 V)

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

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- 25× optical zoom.
- Starlight technology.
- Max. 25/30 fps@1080p.
- IR distance up to 100 m.
- H.265 encoding.
- Perimeter protection.
- Face Detection. Up to 8 faces captured at the same time.



Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

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.

SMD 4.0

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

Camera

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Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	256 MB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)			
Illumination Distance	100 m (328.08 ft) (IR)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR			
Illuminator Number	3 (IR)			
Lens				
Focal Length	4.8 mm-120 mm			
Max. Aperture	F1.6-F3.5			
Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2			
Optical Zoom	25x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto			
DORI Distance	Detect	Observe	Recognize	Identify
	1,613 m (5,291.99 ft)	646 m (2,119.42 ft)	323 m (1,059.71 ft)	161 m (528.22 ft)
PTZ				
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°			

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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	Preset;Pattern;Tour;Scan
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)
Intelligence	
	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fact moving;

Face Detection	Supports face detection, capturing pictures, and face enhancement
SMD	SMD 3.0
Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
Video	
Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;MJPEG(Sub Stream)
Streaming Capability	3 streams
Resolution	1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 1080p/960p/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/960p/720p@(1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 1792 kbps–8192 kbps H.265: 512 kbps–5632 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
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 in the same view
S/N Ratio	≥ 55 dB
Audio	
Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;D NS;DDNS;IPv6;802.1x;SSL;Qos;FTP;UPnP;ICMP;SNMP; SNMPv1/v2c/v3(MIB-2);IGMP;ARP;RTCP;RTP;PPPoE;IP Filter;RTMP;Bonjour;TCP;SMB;NFS
Interoperability	CGI; Dahua SDK; API; SDK; ONVIF (Profle S&G&T)
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS

IVS (Perimeter Protection)

Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification

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Browser	IE 7 and later versions Chrome Firefox Safari
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android; iPhone; iPad
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014
Port	
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; audio; send email
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
Alarm I/O	2/1
Audio I/O	1/1
Power	
Power Supply	12 VDC/3 A (± 10%) PoE (802.3at)
Power Consumption	Basic: 12 W Max.: 20 W (IR light)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	270.4 mm × Φ160.0 mm (10.65" × Φ6.30")
Net Weight	2.4 kg (5.29 lb)
Gross Weight	3.9 kg (8.60 lb)

Ordering Information		
Туре	Part Number	Description
2M Camera	DH-SD49225DB-HNY	2MP 25x Starlight IR Network PTZ Camera
	SD49225DB-HNY	2MP 25x Starlight IR Network PTZ Camera
Accessories	PFB305W	Wall Mount Bracket
	DC12V/3A	Power Adapter
	PFA120	Mount Adapter
	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:







DC12V/3A Power Adapter

PFA120 Mount Adapter

PFA111 Mount Adapter



PFB300C

Ceiling Mount Bracket



PFB301C

Ceiling Mount Bracket



PFA151 Corner mount Bracket







PFA150 Pole Mount Bracket

F	PFB303S
Parapet	Mount Bracket

PFB301S-E Plane Mount Bracket

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