

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.

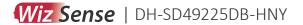
SMD

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	on					Intelligence	
Camera					Tripwire; intrusion; crossing fence detection; loitering		
Image Sensor	1/2.8" CMOS				IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	
Pixel	2 MP				Face Detection	Supports face detection, capturing pictures, and face enhancement	
Max. Resolution	1920 (H) × 1080 (V)				SMD	Yes	
ROM	128 MB				Video		
RAM	256 MB					Smart H.265+;H.265;Smart	
Electronic Shutter Speed	1/1 s-1/30,000 s				Video Compression	H.264+;H.264;H.264B;MJPEG(Sub Stream)	
Scanning System	Progressive				Streaming Capability	3 streams	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				Resolution	1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Illumination Distance	100 m (328.08 ft) (IR)				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)	
Illuminator On/Off Control	Zoom Prio; M	lanual; Smart If	3			Bit Rate Control	CBR/VBR
Illuminator Number	3 (IR)				Video Bit Rate	H.264: 1792 kbps–8192 kbps H.265: 512 kbps–5632 kbps	
Lens					Day/Night	Auto (ICR)/Color/B/W	
Focal Length	4.8 mm-120 mm				BLC	Yes	
Max. Aperture	F1.6–F3.5				WDR	120 dB	
Field of View	H: 58.5°-2.8°; V: 33.2°-1.5°; D: 67.5°-3.2				HLC	Yes	
Optical Zoom Focus Control	25x Auto; semi-auto; manual				White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp	
Close Focus Distance					Gain Control	Auto; manual	
Iris Control	0.1 m-1.5 m (0.33 ft-4.92 ft)				Noise Reduction	2D NR; 3D NR	
ins control	Auto Detect Observe Recognize Identify				Motion Detection	Yes	
DORI Distance	1,613 m	646 m	Recognize 323 m	161 m		Region of Interest (RoI)	Yes
	(5,291.99 ft)			(528.22 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 Tilt: 0.1°/s-80°/s				Image Rotation	180°
Preset Speed	Pan: 80°/s; Ti	Pan: 80°/s; Tilt: 80°/s				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Preset	300				S/N Ratio	≥ 55 dB	
Tour	8 (up to 32 presets per tour)				Audio		
Pattern	5				Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729	
Scan	5				Network		
Power-off Memory	Yes				Network Port	RJ-45 (10/100 Base-T)	
Idle Motion	Preset;Pattern;Tour;Scan				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	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)						
				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
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		
	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA120	Mount Adapter		
	PFA111	Mount Adapter		
Accessories	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



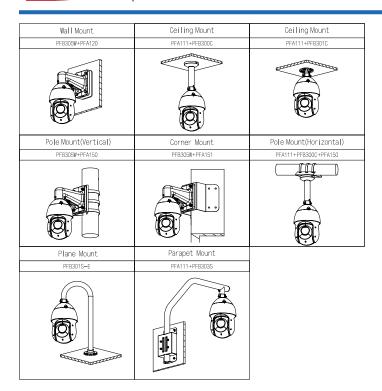
PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



Dimensions (mm[inch])

