



DH-SD49425DB-HNY

4MP 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.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- 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.











SMD

Empowered by Deep-Learning Algorithms, Dahua SMD Plus 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

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.

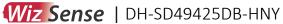
Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Realtime snapshot, priority snapshot, and quality priority.

Protection (IP66, TVS 6000 V)

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

Technical Specification			Supports face detection, capturing sr
Camera		Face Detection	and enhancing face images. Face cuto offered, where you can cutout one fa
Image Sensor	1/2.8" CMOS		and customize the size to be a one-in- supported methods for capturing sna
Pixel	4 MP		time capturing and quality first.
Max. Resolution	2560 (H) × 1440 (V)	SMD	Yes
ROM	128 MB	Video	
RAM	512 MB	Video Compression	H.264H; H.264B; Smart H.265+; H.264 (Sub Stream); Smart H.264+
Electronic Shutter Speed	1/1 s-1/30,000 s	Streaming Capability	3 streams
Scanning System	Progressive		4M (2560 × 1440); 3M (2304 × 1296); × 1080); 1.3M (1280 × 960); 720p (128
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (illuminator on)	Resolution	(704 × 576); VGA (640 × 480)/CIF (352 240) Main stream: 4M/3M/1080p/1.3M/7
Illumination Distance	100 m (328.08 ft) (IR)		
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off		Sub stream 1: D1/CIF/VGA@(1–25/30 Sub stream 2: 720p@(1–25/30 fps)
Illuminator Number	3 (IR)	Bit Rate Control	CBR/VBR
Lens	. ,	Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Focal Length	5 mm-125 mm	Day/Night	Auto (ICR)/Color/B/W
Max. Aperture	F1.6-F3.6	BLC	Yes
Field of View	H: 51.9°–3.0°; V: 39.7°–2.2°;	WDR	120 dB
	D: 63.1°–3.7°	HLC	Yes
Optical Zoom	25×	White Balance	Auto; indoor; outdoor; tracking; man lamp; natural light; street lamp
Focus Control	Auto; semi-auto; manual	Gain Control	Auto; manual
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)	Noise Reduction	2D NR; 3D NR
Iris Control	Auto; manual	Motion Detection	Yes
DORI Distance	Detect Observe Recognize Identify	Region of Interest (RoI)	Yes
	2500 m 987.5 m 500 m 250 m (8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 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; Tilt: 80°/s	Privacy Masking	Up to 24 areas can be set, with up to a
Preset	300	Privacy Masking same view; multiple colors availab	
Tour	8 (up to 32 presets per tour)	S/N Ratio	≥55 dB
Pattern	5	Audio	
Scan	5	Audio Compression	PCM; G.711A; G.711MU; G.726; AAC; G.722.1
Power-off Memory	Yes	Network	
Idle Motion	Pattern; Preset; Scan; Tour	Network Port	RJ-45 (10/100 Base-T)
Intelligence			FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RT
-	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object;	Network Protocol	NTP;RTP;802.1x;HTTPS;SNMP;TCP/IPNFS;ICMP;UDP;IGMP;SMB;HTTP;SSL;
IVS (Perimeter Protection)	fast moving; parking detection; people gathering;		Qos;RTSP;ARP



Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	FTP/SFTP; 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; NVR; Smart PSS;IVSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014		
Port			
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% POE+ (802.3at)		
Power Consumption	Basic: 8 W Max: 21 W (illuminator + heater + PTZ)		
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	2.4 kg (5.29 lb)		
Gross Weight	3.3 kg (7.28 lb)		

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD49425DB-HNY	4MP 25x Starlight IR WizSense Network PTZ Camera		
	SD49425DB-HNY	4MP 25x Starlight IR WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA126	Mount Adapter		
	PFA111	Mount Adapter		
	PFB300C	Ceiling Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane 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



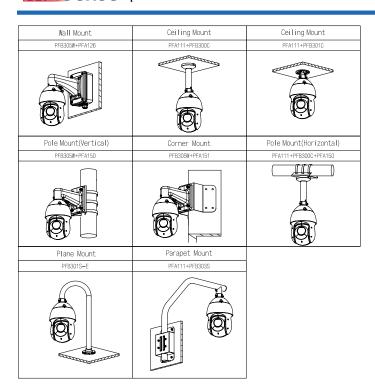
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm [inch])

