



DH-SD49425DB-HNY

4MP 25x Starlight IR Network PTZ Camera





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.

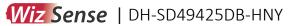
Face Detection

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 snapshots, and enhancing face images. Face cutout is also
Camera		Face Detection	offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The
Image Sensor	1/2.8" CMOS	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)	Auto Potrol	It triggers the IVS rule when a target is detected and
ROM	128 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 (704 × 576); VGA (640 × 480)/CIF (352 × 288/352 ×
Illumination Distance	100 m (328.08 ft) (IR)		240) 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: 96 kbps–14848 kbps H.265: 38 kbps–8960 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°; D: 63.1°-3.7°	BLC	Yes
Optical Zoom	25×	WDR	120 dB
Focus Control	Auto; semi-auto; manual	HLC	Yes
Close Focus Distance	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
DORI Distance	Detect Observe Recognize Identify	Noise Reduction	2D NR; 3D NR
	2500 m 987.5 m 500 m 250 m (8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	Motion Detection	Yes
PTZ	(8208.1011) (3239.8311) (1040.4211) (820.2111)	Region of Interest (RoI)	Yes
	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		Up to 24 areas can be set, with up to 8 areas in the
Tour	8 (up to 32 presets per tour)	Privacy Masking	same view; multiple colors available
Pattern	5	S/N Ratio	≥55 dB
Scan	5	Audio	
Power-off Memory	Yes	Audio Compression	PCM; G.711A; G.711MU; G.726; AAC; MPEG2-Layer2; G.722.1
Idle Motion	Pattern; Preset; Scan; Tour	Network	
Intelligence		Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Network Protocol	FTP;RTMP;IPV6;Bonjour;IPV4;DNS;RTCP;PPP0E; NTP;RTP;802.1x;HTTP5;SNMP;TCP/IP;DDNS;UPnP; NFS;ICMP;UDP;IGMP;SMB;HTTP;SSL;DHCP;SMTP; Qos;RTSP;ARP



ONVIF(Profile S&G&T);CGI;SDK				
Unicast/Multicast				
20 (total bandwidth: 64 M)				
FTP/SFTP; Micro SD card (512 GB); NAS				
IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions				
DSS; NVR; Smart PSS;IVSS				
iOS; Android				
Certification				
CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014				
Port				
1 channel				
1 channel				
Capture; recording; send email; preset; pattern; tour; alarm digital input				
Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
2/1				
1/1				
12 VDC, 3 A ± 10% POE+ (802.3at)				
Basic: 8 W Max: 21 W (illuminator + heater + PTZ)				
Environment				
-40 °C to +65 °C (-40 °F to +149 °F)				
≤95%				
IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure				
270.4 mm × Φ160 mm (10.65" × Φ6.30")				
2.4 kg (5.29 lb)				
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



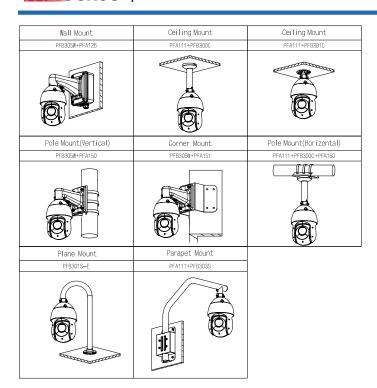
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm [inch])

