

DH-SD49825XB-HNR

8MP 25x Starlight IR WizSense Network PTZ Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopts 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

Dahua PTZ WizSense network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possesses wide monitor range, PFA algorithm that can always present a clear, focused image while zooming. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which makes it meet most of the requirements of video surveillance applications.

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.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, 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: Real-time snapshot, priority snapshot, and quality priority.

- · 1/2.8" 8Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · IR distance up to 100 m
- · Perimeter protection
- · Face detection
- · IP66











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.

Protection

The camera allows for 6 kV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Technical Specification					SMD	Yes
Camera					Video	
Image Sensor	1/2.8" CMOS				Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264 H.264H; MJPEG (Sub Stream 1)
Pixel	8 MP				Streaming Capability	3 streams
Max. Resolution	3840 (H) × 2160 (V)				Streaming capability	4K (3840 × 2160); 4M (2560 × 1440); 3M (2304 × 1
ROM	4 GB				Resolution	1080p (1920 × 1080); 960p (1280 × 960); 720p (12 720); D1 (704 × 576/704 × 480); VGA (640 × 480); (
RAM	1 GB					(352 × 288/352 × 240) Main stream: 4K/4MP/1080p/1.3M/720p (1–25/30
Electronic Shutter Speed	1/1 s-1/30,000 s				Video Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6				Bit Rate Control	CBR; VBR
iviiii. ilidiiiiiiddioii	0 lux (IR light on)				Video Bit Rate	H.264: 3328 kbps-8192 kbps H.265: 1280 kbps-8192 kbps
Illumination Distance	100 m (328.08 ft) (IR)				Day/Night	Auto (ICR); Color; B/W
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off				BLC	Yes
Illuminator Number	4 (IR)				WDR	Yes
Lens					HLC	Yes
Focal Length	5 mm-125 mm					Auto; indoor; outdoor; tracking; manual; sodium l
Max. Aperture	F1.6–F3.6				White Balance	natural light; street lamp
Field of View	H: 53.1°–3.4°; V: 30.4°–1.9°; D: 59.3°–3.9°				Gain Control	Auto; Manual
Optical Zoom	25×				Noise Reduction	2D NR; 3D NR
Focus Control	Auto; Semi-auto; Manual				Motion Detection	Yes
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)				Region of Interest (RoI)	Yes
Iris Control	Auto; Manual				Image Stabilization	EIS
	Detect Observe Recognize Identify				Defog	Electronic defog
DORI Distance	2,161.4 m (7,091.21 ft) (2	864.6 m	432.3 m	216.1 m (708.99 ft)	Digital Zoom	16×
PTZ	(7,031.2111) (2	.,030.0111,	(1,410.5111)	(700.55 10)	Image Rotation	180°
Pan: 0° to 360° endless				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view	
Pan/Tilt Range	Tilt: –15° to +90°, auto flip 180°				S/N Ratio	≥ 55 dB
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s				Audio	
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;
Preset	300				·	G.729; G.723
Tour	8 (up to 32 presets per tour)				Network	DL 45 (40/400 D T)
Pattern	5				Network Port	RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP;
Scan	5				Network Protocol	DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCF
Power-off Memory	Yes					RTMP
Idle Motion	Preset; Tour; Pattern; Scan				Interoperability	ONVIF Profile S&G&T CGI
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)				User/Host	20 (total bandwidth: 64 MB)
Intelligence	T CICO-F/D (auto	, recognitio	111)		Storage	FTP; Micro SD card (256 GB)
Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright				Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	
	lights, etc. Yes					

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Mobile Client	iOS; Android; iPhone; iPad				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No. 60950-1				
Port					
Audio Input	1 channel				
Audio Output	1 channel				
Two-way Audio	Yes				
Alarm Input	2 channel, digital input (0–5 VDC)				
Alarm Output	1 channel				
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
Power					
Power Supply	12 VDC, 3 A (± 10%) PoE+ (802.3at)				
Power Consumption	Basic: 9.8 W Max.: 20 W (illuminator)				
Environment					
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)				
Operating Humidity	≤ 95%				
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	269.9 mm × Φ160 mm (10.62" × Φ6.30")				
Net Weight	3.0 kg (6.61 lb)				
Gross Weight	4.3 kg (9.48 lb)				

Ordering Information							
Туре	Model	Description					
8M Wizsense PTZ Camera	DH-SD49825XB-HNR	8MP 25x Starlight IR PTZ AI Network Camera					
	SD49825XB-HNR	8MP 25x Starlight IR PTZ AI Network Camera					
Accessories	PFB305W	Wall Mount Bracket					
	DC12V/3A	Power 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					
	PFA120	Junction Box					
	PFA140	Water-proof Power Box					

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power 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

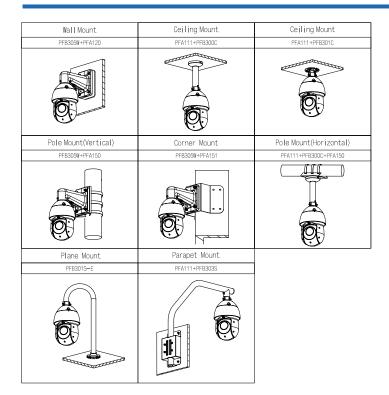


PFA120 Junction Box



PFA140 Water-proof Power Box





Dimensions (mm[inch])

