



# 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	1	SMD	Yes
Camera		Video	
Image Sensor	1/2.8" CMOS	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream 1)
Pixel	8 MP	Streaming Capability	3 streams
Max. Resolution	3840 (H) × 2160 (V)	an animag an panima,	4K (3840 × 2160); 4M (2560 × 1440); 3M (2304 × 1296)
ROM	4 GB	Resolution	1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
RAM	1 GB		(352 × 288/352 × 240) Main stream: 4K/4MP/1080p/1.3M/720p (1–25/30 fps)
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 0 lux (IR light on)	Bit Rate Control	CBR; VBR H.264: 3328 kbps-8192 kbps
Illumination Distance	100 m (328.08 ft) (IR)	Video Bit Rate	H.265: 1280 kbps-8192 kbps
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off	Day/Night	Auto (ICR); Color; B/W
Illuminator Number	4 (IR)	BLC	Yes
Lens		WDR	Yes
Focal Length	5 mm-125 mm	HLC	Yes
Max. Aperture	F1.6-F3.6	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; 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 864.6 m 432.3 m 216.1 m	Digital Zoom	16×
DT7	(7,091.21 ft) (2,836.61 ft) (1,418.31 ft) (708.99 ft)	Image Rotation	180°
PTZ Pan/Tilt Range	Pan: 0° to 360° endless	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
	Tilt: -15° to +90°, auto flip 180°  Pan: 0.1°-200°/s	S/N Ratio	≥ 55 dB
Manual Control Speed	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; G.729; G.723
Preset	300	Network	6.725, 6.725
Tour	8 (up to 32 presets per tour)	Network Port	RJ-45 (10/100 Base-T)
Pattern	5		HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS;
Scan	5	Network Protocol	DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP v1/ v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP;
Power-off Memory	Yes	Interoperability	RTMP ONVIF Profile S&G&T CGI
Idle Motion	Preset; Tour; Pattern; Scan	User/Host	20 (total bandwidth: 64 MB)
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)	Storage	FTP; Micro SD card (256 GB)
Intelligence		5.0.050	IE 7 and later versions
IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.	Browser	Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Face Detection	Yes	Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS; Player; Configtool; NVR; Smart Player

# Wiz Sense | DH-SD49825XB-HNR

iOS; Android; iPhone; iPad
CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No. 60950-1
1 channel
1 channel
Yes
2 channel, digital input (0–5 VDC)
1 channel
Capture; preset; tour; pattern; recordings on SD card; alarm digital input; send email
Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
12 VDC, 3 A (± 10%) PoE+ (802.3at)
Basic: 9.8 W Max.: 20 W (illuminator)
-40 °C to +70 °C (-40 °F to +158 °F)
≤ 95%
IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection
269.9 mm × Φ160 mm (10.62" × Φ6.30")
3.0 kg (6.61 lb)
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



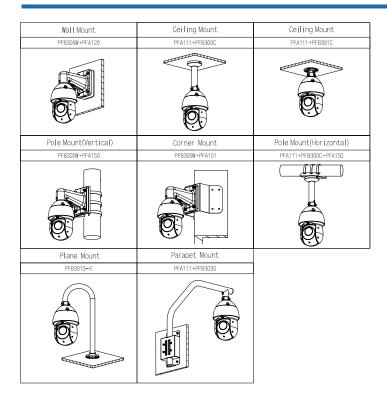
PFA150 Pole Mount Bracket



PFA120 Junction Box



PFA140 Water-proof Power Box



# Dimensions (mm[inch])

