

# E-MAPT ВАШ ПОСТАВЩИК DAHUA

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# DH-SD49425XB-HNR

4MP 25x Starlight IR WizSense 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**

Dahua PTZ WizSense network camera adopts advanced CNN deep learning algorithms to support Perimeter Protection with high accuracy. This camera possess 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 make it can meet most of the requirements of video surveillance applications.

### **Functions**

### **Starlight Technology**

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

### **Wide Dynamic Range**

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

- · 1/2.8" 4Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max.25/30fps@4M
- · Perimeter protection
- · Support PoE+
- · IR distance up to 100m
- · SMD PLUS
- · IP66













#### **Environmental**

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### **Protection**

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

### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

### **PFA Technology**

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

### **SMD PLUS**

With Deep-Learning Algorithm, Dahua SMD PLUS Pfilters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively , sending alarms when human and vehicle intrude.



Technical Specification				General Intelligence	General Intelligence	
Camera			Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
Image Sensor	1/2.8" STARVIS™ CMOS				IVS	Object Abandoned/Missing
Pixel	4MP				Artificial Intelligence	
Max. Resolution	2560 (H) × 1	2560 (H) × 1440 (V)			Ü	Tripwire and intrusion. Support alarm triggering by
ROM		4GB			Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
RAM		1GB			SMD PLUS	lights, etc. Support
Electronic Shutter Speed	1/1 s-1/30,0	000 s			Face Detection	Support
Scanning System	Progressive				Smart Cantura	Support human, motor vehicle and non-motor vehicle
Min. Illumination	Color: 0.005 B/W: 0.0005 0Lux@F1.6 (	SLux@F1.6			Smart Capture Video	image capture.
Illumination Distance	100 m (328.0	08 ft)			Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)
Illuminator On/Off Control	Zoom Prio/N	Лanual/SmartII	R		Streaming Capability	3 streams
Illuminator Number	4					4M (2560 x 1440); 3M (2048 x 1536); 1080P (1920 x
Lens					Resolution	1080); 1.3M (1280 x 960); 720P (1280 x 720); D1 (704 x 576/704 x 480); CIF (352 x 288/352 x 240)
Focal Length	4.8 mm-120 mm					Main stream: 4MP/3MP/1080P/1.3MP/720P (1–25fps)
Max. Aperture	F1.6–F4.0				Frame Rate	Sub stream 1: D1/CIF (1–25fps) Sub stream 2: 1080P/1.3M/720P (1–25fps)
Field of View	H: 60.0°-2.5	H: 60.0°–2.5°; V: 30.8°–2.2°; D: 66.7°–2.9°			Bit Rate Control	Variable/Constant
Optical Zoom	25x				Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Focus Control	Auto/Semi-Auto/Manual				Day/Night	Auto(ICR)/Color/B/W
Close Focus Distance	0.1 m-1.5 m	0.1 m-1.5 m (0.33 ft-4.92 ft)			BLC	Support
Iris Control	Auto/Manua	Auto/Manual			WDR	120 dB
	Detect	Observe	Recognize	Identify	HLC	Support
DORI Distance	2540 m (8333.33 ft)	1016 m (3333.33 ft)	508 m (1666.67 ft)	254 m (833.33 ft)	White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
	(6555.5511)	(3333.3311)	(1000.0711)	(655.5511)	Gain Control	Auto/Manual
PTZ		0 ( 11 )			Noise Reduction	Ultra DNR (2D/3D)
Pan/Tilt Range	Pan: 0°–360° (endless) Tilt: -15°–90° (auto flip 180°)				Motion Detection	Support
Manual Control Speed		Pan: 0.1°–200°/s Tilt: 0.1°–120°/s			Region of Interest	Support
Preset Speed	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s			Electronic Image Stabilization	Support
Presets	300				Electronic Defog	Support
Tour	8 (up to 32 presets per tour)				Digital Zoom	16x
Pattern	5				Flip	180°
Scan	5				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Speed Adjustment	Support				Audio	
Power-off Memory	Support				Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2; G.729
Idle Motion	Preset/Tour/Pattern/Scanning				Network	
Protocol	DH-SD				Ethernet	RJ-45 (10/100Base-T)
	Pelco-P/D (auto recognition)					, ,

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Protocol	IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	19
Storage	NAS; Local PC; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari (no version restrictions)
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS/Android

### Certification

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
	UL: UL62368-1+CAN/CSA C22.2,No. 62368-1

### Port

Audio Input	1
Audio Output	1
Alarm I/O	2/1

### Power

Power Supply	DC 12V/3A PoE+ (802.3at)
Power Consumption	13W 21W (IR on)

### Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Protection	IP66; TVS 6000V lightning proof; Surge protection

### Structure

Dimensions	Φ160 mm × 295 mm (6.30" × 11.61")
Net Weight	3 kg (6.61 lb)
Gross Weight	4.8kg (10.58lb)

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD49425XB-HNR	4MP 25x Starlight IR WizSense Network PTZ Camera, WDR, PAL		
	DH-SD49425XBN-HNR	4MP 25x Starlight IR WizSense Network PTZ Camera, WDR, NTSC		
	SD49425XB-HNR	4MP 25x Starlight IR WizSense Network PTZ Camera, WDR, PAL		
	SD49425XBN-HNR	4MP 25x Starlight IR WizSense Network PTZ Camera, WDR, NTSC		

	PFB305W	Wall Mount Bracket	
	PFA111	Mount Adapter	
	DC12V/3A	Power Adapter	
	PFA140	Power Box	
Accessories	PFB300C	Ceiling Mount Bracket	
	PFA120	Water-proof Junction Box	
	PFA150	Pole Mount Bracket	
	PFA151	Corner Mount Bracket	
	PFB303S	Parapet Mount Bracket	

### **Accessories**

### Included:



PFB305W Wall Mount Bracket

### **Optional:**



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



DC12V/3A Power Adapter



PFA120 Water-proof Junction Box



PFA140 Power Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

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Ceiling Mount	Junction Mount	Power Box Mount
PFA111+PFB300C	PFB305W + PFA120	PFB305W + PFA140
Pole Mount	Corner Mount	Parapet Mount
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB303S

## Dimensions (mm [inch])

