

# E-MAPT ВАШ ПОСТАВЩИК DAHUA https://emart.su/brands/dahua/

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## DH-SD49225XA-HNR

2MP 25x Starlight IR PTZ AI Network Camera



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua Al includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

## System Overview

Dahua PTZ AI 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.

- · 1/2.8" 2Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 50/60fps@1080P
- $\cdot$  Perimeter protection
- · Support PoE+
- · IR distance up to 100m
- · SMD Plus · IP66



## **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.

## 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 filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectvely, sending alarms when human and vehicle intrude.



## Lite AI Series | DH-SD49225XA-HNR

#### **Technical Specification**

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Camera				
Image Sensor	1/2.8" STARVIS™ CMOS			
Effective Pixels	2MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	4GB			
RAM	1GB			
Electronic Shutter Speed	1/1 s-1/30,0	1/1 s-1/30,000 s		
Scanning System	Progressive			
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0.0005Lux@F1.6 0Lux@F1.6 (IR light on)			
IR Distance	100 m (328.08 ft)			
IR On/Off Control	Zoom Prio/Manual/SmartIR			
IR LEDs Number	6			
Lens				
Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6-F4.4			
Field of View	H: 62.8°–2.6°; V: 33.2°–1.7°; D: 67.3°–3.9°			
Optical Zoom	25x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto/Manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1613 m (5291.99 ft)	646 m (2119.42 ft)	323 m (1059.71 ft)	161 m (528.22 ft)

PTZ

Pan/Tilt Range	Pan: 0°–360° (endless) Tilt: -15°–90° (auto flip 180°)
Manual Control Speed	Pan: 0.1°-200°/s Tilt: 0.1°-120°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern Number	5
Scanning Number	5
Speed Adjustment	Support
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)

#### General Intelligence Motion detection, Video tampering, Scene changing, Event Trigger Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Artificial Intelligence Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering Perimeter Protection false alarms caused by animals, rustling leaves, bright lights, etc. SMD Plus Support Face Detection Support Support human, motor vehicle and non-motor vehicle Video Metadata image capture. Video H.265+/H.265/H.264+/H.264/MJPEG (sub stream) Compression Streaming Capability 3 streams 1080P (1920 × 1080); 1.3 M (1280 × 960); 720P (1280 Resolution × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Main stream: 1080P/1.3 M/720P (1-50/60fps) Frame Rate Sub stream 1: D1/CIF (1-25/30fps) Sub stream 2: 1080P/1.3M/720P/D1/CIF (1-25/30fps) Bit Rate Control Variable Bit Rate/Constant Bit Rate Bit Rate H.265/H.264: 3 kbps-20480 kbps Auto(ICR)/Color/B/W Day/Night BLC Support WDR 120 dB HLC Support Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ White Balance Natural light/Street lamp Gain Control Auto/Manual Ultra DNR (2D/3D) Noise Reduction Motion Detection Support Region of Interest Support Electronic Image Stabilization Support Electronic Defog Support Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas, and up to 8 areas in the same view Audio G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2; Compression G.729 Network RJ-45 (10/100Base-T) Ethernet IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; Protocol SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x

## Lite AI Series | DH-SD49225XA-HNR

Interoperability	ONVIF Profile S&G CGI
Streaming Method	Unicast/Multicast
User/Host	19
Edge Storage	NAS; Local PC; Micro SD card (256G)
Browser	IE7 and newer versions Chrome 45 and newer versions Firefox 52 and earlier versions Safari (no version restrictions)
Management Software	Smart PSS; DSS; DMSS
Smart Phone	IOS/Android
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 In	1
Audio Out	1
Alarm Port	2/1
Power	
Power Supply	DC 12V/3A PoE+ (802.3at)
Power Consumption	13W 22W (IR on)
Environment	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Ingress Protection	IP66; TVS 6000V lightning proof; Surge protection
Structure	
Casing	Aluminium alloy ADC12
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
2M PTZ Camera	DH-SD49225XA-HNR	2MP 25x Starlight IR PTZ AI Network Camera, WDR, PAL
	DH-SD49225XAN-HNR	2MP 25x Starlight IR PTZ AI Network Camera, WDR, NTSC
	SD49225XA-HNR	2MP 25x Starlight IR PTZ AI Network Camera, WDR, PAL
	SD49225XAN-HNR	2MP 25x Starlight IR PTZ AI Network Camera, WDR, NTSC

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

## Accessories

## Included:



PFB305W Wall Mount

## **Optional:**



PFA111

Mount Adapter

PFB300C

Ceiling Mount

DC12V/3A

PFA140 Power Box



Power Adapter



PFA150 Pole Mount

PFA120 Water-proof Junction Box



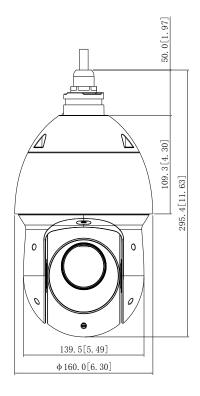
PFA151 Corner Mount

PFB303S Parapet Mount

## Lite AI Series | DH-SD49225XA-HNR

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])





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