

# DH-SD49425XB-HNR-1T

4MP 25x IR DHOP NETWORK PTZ CAMERA



· 1/2.8" 4Megapixel CMOS
· Powerful 25x optical zoom

- · Starlight technology
- · Max.25/30fps@4M
- · Perimeter protection
- · Support PoE+
- · IR distance up to 100m

• IP66

DHOP



#### System Overview

Dahua PTZ DHOP 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.

Dahua DHOP series network cameras adopt open application platform, allows 3rd party applications to be downloaded and installed on this series cameras. It provides end-users with the right solutions to optimize their security or IoT environment. Flexibility is also guaranteed as users can always remove existing applications and upload new solutions.

#### Functions

#### DHOP (Dahua Hardware Open Platform)

With open architecture, encapsulated hardware make it easier to develop and upgrade software this series cameras. It has a diverse ecosystem, various applications are available for the users to select the suitble solutions. Find more available applications here: https://depp. dahuasecurity.com/OpenPlatform.

#### 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.

#### 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.

# DHOP | DH-SD49425XB-HNR-1T

#### Technical Specification

Focus Control

Iris Control

DORI Distance

Pan/Tilt Range

Preset Speed

Manual Control Speed

PTZ

Close Focus Distance

lechnical Specification		
1T computing power for enhanced performance		
350 M		
300 M		
64 M		
A.I.Tech, ACIC, Grekkom, Kobi, Retailflux, Siteeye, TechnoAware, etc. (https://depp.dahuasecurity.com/OpenPlatform)		
1/2.8" STARVIS™ CMOS		
4MP		
2560 (H) × 1440 (V)		
4GB		
1GB		
1/1 s-1/30,000 s		
Progressive		
Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 0 Lux@F1.6 (IR light on)		
100 m (328.08 ft)		
Zoom Prio/Manual/SmartIR		
4		
4.8 mm–120 mm		
F1.6-F4.0		
H: 60.0°–2.5°; V: 30.8°–2.2°; D: 66.7°–2.9°		
25x		

Auto/Semi-Auto/Manual 0.1 m-1.5 m (0.33 ft-4.92 ft)

Observe

Pan: 0°–360° (endless) Tilt: -15°–90° (auto flip 180°)

Auto/Manual

Detect

2540 m

(8333.33 ft)

Pan: 0.1°-200°/s

Tilt: 0.1°-120°/s Pan: 240°/s

, Tilt: 200°/s

Presets	300		
Tour	8 (up to 32 presets per tour)		
Pattern	5		
Scan	5		
Speed Adjustment	Support		
Power-off Memory	Support		
Idle Motion	Preset/Tour/Pattern/Scanning		
Protocol	DH-SD Pelco-P/D (auto recognition)		
General Intelligence			
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
Video			
Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)		
Streaming Capability	3 streams		
Resolution	4M (2560 x 1440); 3M (2048 x 1536); 1080P (1920 x 1080); 1.3M (1280 x 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)		
Frame Rate	Main stream: 4MP/3MP/1080P/1.3MP/720P (1–25fps) Sub stream 1: D1/CIF (1–25fps) Sub stream 2: 1080P/1.3M/720P (1–25fps)		
Bit Rate Control	Variable/Constant		
Bit Rate	H.265/H.264: 3 kbps-20480 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Support		
WDR	120 dB		
HLC	Support		
White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp		
Gain Control	Auto/Manual		
Noise Reduction	Ultra DNR (2D/3D)		
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			
Compression	G.711a; G.711Mu; AAC; G.722.1; G.726; MPEG2-Layer2; G.729		

Identify

254 m

(833.33 ft)

Recognize

1016 m 508 m (3333.33 ft) (1666.67 ft)

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#### Network

Network		
Ethernet	RJ-45 (10/100Base-T)	
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; DHOP SDK	
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		
Certifications	CE: EN55032/EN55024/EN50130-4 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	4.8 kg (10.58 lb)	

#### 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

Wall Mount Bracket

### Accessories

## Included:



PFB305W

PFB305W Wall Mount Bracket

PFA111

Mount Adapter

PFB300C

## **Optional:**







DC12V/3A Power Adapter





Pole Mount Bracket

Ceiling Mount Bracket



Corner Mount Bracket



Parapet Mount

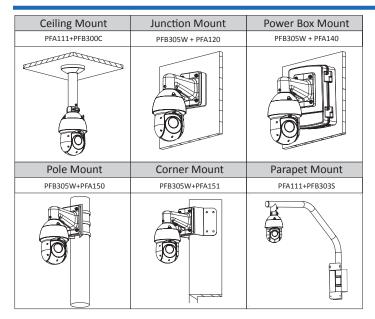
PFA120 Water-proof Junction Box



**Ordering Information** 

Туре	Model	Description
4MP DHOP PTZ Camera	DH-SD49425XB-HNR-1T	4MP 25 Ordinary IR DHOP NETWORK PTZ CAMERA

DHOP | DH-SD49425XB-HNR-1T



Dimensions (mm [inch])

