

# DH-SD49425XB-HNR-S3

4MP 25x Starlight IR WizSense Network PTZ Camera



Wiz Sense

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 WizSence 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

### **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.

### 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.

### **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.

- · 1/2.8" 4Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 25/30 fps@4M
- $\cdot$  IR distance up to 100 m
- · Perimeter protection
- $\cdot$  Face detection
- $\cdot$  SMD Plus
- · IP66



### Environment

Developed to operate in extreme conditions, the camera can function in temperatures ranging from -40 °C to +65 °C (-40 °F to +149 °F) at 95% humidity. It was subjected to rigorous dust and water immersion tests, gaining its IP66 Ingress Protection certification, making it suitable for demanding outdoor applications.

### Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR (120 dB) adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

#### Protection

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

### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

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<form>SeriesSeriesSeriesSeriesSeriesIndependenceIndependenceSeries<t< th=""><th>Technical Specification</th><th>1</th><th>Face Detection</th><th>Yes</th></t<></form>	Technical Specification	1	Face Detection	Yes	
New Name			SMD	Yes	
Nome     Nome </td <td>Image Sensor</td> <td>1/2.8" CMOS</td> <td>Video</td> <td colspan="2">Video</td>	Image Sensor	1/2.8" CMOS	Video	Video	
Nake Resolution Specify (s) 4441 (V)   ROM 255.000   RAM 37.58   RAM 37.58   Bectoric Stutter Specify 37.58   Scaning System 17.58   Scaning System 17.58   Mini Illerination Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Color Doop Margin 1   Buinnator On Doop Margin 1 Some 1   Buinnator Doop Margin 1 S	Pixel	4 MP	Video Compression		
fam     field of the family of the	Max. Resolution	2560 (H) × 1440 (V)	Streaming Capability	3 Streams	
HAM     SIZM     For a safe of a same	ROM	256 MB	Develoption		
Conception     Percentation     Percentation     Substance	RAM	512 MB	Resolution		
Schmidt ystem     Programs/ Programs/ Programs/ Programs/ Interniet/Product ystem     Product ystem	Electronic Shutter Speed	1/1 s-1/30,000 s	Video Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps)	
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Itiuminator On/Off Control     Zoom Price Manuale Smart Re; Off     BLC     Yes       Itiuminator Number     4/R	Illumination Distance	100 m (328.08 ft) (IR)	Dav/Night		
Huminator Number 4/8/1   Lens VDR 2.0 dl   Hick 48.mm-120 mm Hick Yes   Mass. Aperture Field of View H: 56.2 <sup>+1</sup> .2.6 <sup>+</sup> , V: 32.5 <sup>+</sup> , 1.5 <sup>+</sup> , D: 63.2 <sup>+</sup> .3 <sup>+</sup> Gali Control Auto, Indoor, cutdoor, tracking, manual, sodium Iamp, field of View   Gold Eargent 25. Forest Control Auto, Semi-auto, Manual Gali Control Auto, Vanual   Cose Focus Distance 2.5 m (43.2 ft) To indice To indi	Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Lens Max. Jess Jess Jess   Max. Aperture Fi.5-r13.8 Field of View Hi C Yes   Pield of View H:56.2°-26°, Vi.32.5°-15°, Di 6.32°-3° White Balance Auto, Minual   Optical Zoom 25x Scientard Auto, Minual Noise Reduction 20 Ni, 3D Ni   Focus Control Auto, Semia-uto, Manual Scientard Motion Detection Yes   Cose focus Distance 1.5 m (4.92 ft) Jesso main 20 minor Yes   Port Of Savo ft (3, 20 of ft) Jesso main 20 minor Yes Period Control Yes   Port Of Savo ft (3, 21 of ft) Jesso main 20 minor Yes Yes Yes   Prix Of To Savo ft (3, 21 of ft) Jesso main 20 minor Yes Yes   Prix Of To Savo ft (3, 21 of ft) Jesso main 20 minor Yes Yes   Part Of To Savo ft (3, 21 of ft) Jesso main 20 minor Yes Yes of General Samo Yes   Prix Of To Savo ft (3, 21 of ft) Jesso main Yes Yes of General Samo Yes Yes   Prix Of To Savo ft (3, 21 of ft) Jesso main Yes Yes of General Samo Yes Yes   Prix Of To Savo ft (3, 21 of ft) Jesso ft (4, 21 of ft) Yes Yes Yes </td <td>Illuminator Number</td> <td>4 (IR)</td> <td></td> <td></td>	Illuminator Number	4 (IR)			
Focal length $48 \text{ mm} - 120 \text{ mm}$ While BalanceAuto; Indoor; outdoor; tracking; manual; sodium lange, natural light; street langeMax. Aperture $E16-43.8$ Gain ControlAuto; ManualField of View $H:56.2^+.26^+, V: 32.5^+.15^+, D: 63.2^+.3^+$ Gain ControlAuto; ManualOptical Zoom $25x$ $Xato; Semi-sub; NanualNoise Reduction20.18, 30.18Focus ControlAuto; ManualNoise ReductionYesRegion of Interest (Roi)YesClose Focus Distance15 m (42.2^+)^+IdentifyPrice Noise ReductionBot2,400 m94.8 m48.0 m24.0 mPrice NoiseRegion of Interest (Roi)YesPTZ2,400 m94.8 m48.0 m24.0 mPrice Noise Nois$	Lens				
Max. Aperture     F1.6–7.3.8     Instantion light; street imp       Field of View     F1.6–7.3.6°, V; 32.5°–1.5°, D: 63.2°–3°     Gain Control     Auto; Manual       Optical Zoom     25x     Image: Control     Auto; Manual     Disk Reduction     2D R; 3D R       Focus Control     Auto; Semi-auto; Manual     Is m (4.92 m)     Ves     Control     Ves       Close Focus Distance     1.5 m (4.92 m)     Ves     Control     Ves     Control       DoRi Distance     Detect     Observe     Recognize     Identify     Provest (Roi)     Ves     Control       PTZ     Detect     Observe     Recognize     Observe     Recognize     Autoin       Provest Speed     Pari: 01'ro: 300° endiess Tile: -15° to +00°, suito fijp -10° to Corr     Tile: -15° to +00°, suito fijp -10° to Tour     Retwork Port     R1-45 (10/100 Rase-T)     Network Portocol     R1-45 (10/100 Rase-T)       Preset Speed     Pari: 01'ro-300° s     Tile: -15° to +00°, suito fijp -10° s     Vestor     Retwork Portocol     R1-45 (10/100 Rase-T)       Preset Speed     Samper Speed Sp	Focal Length	4.8 mm–120 mm			
Field of View   H: 56.2**-2.6'; V: 32.5*-1.5*; D: 63.2**-3*   Noise Reduction   20.18; 30.0R; 30.0R	Max. Aperture	F1.6-F3.8			
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Iris Control   Auto     DORI Distance   Detect   Observe   Recognize   Identify     PAP   Detect   Observe   Recognize   Identify     PTZ   2,400 m   948 m   480 m   240 m     PAT/Til Range   Pari-01 to 360" endless   5/N Ratio   ≥ 55 dB     Pan/Tilt Range   Pari-01 to 360" endless   Audo Compression   G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1     Manual Control Speed   Par: 200%; Tilt: 100%   V   V   Audo Compression   G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1     Preset Speed   Par: 200%; Tilt: 100%   V   V   Network   Network     Preset   300   V   V   Network Protocol   RI-45 (10/100 Base-T)     Preset   300   V   V   Network Protocol   RI-45 (10/100 Base-T)     Pattern   5   V   V   Streaming Method   Unicat; Multicat     Power-off Memory   Ves   Ves   Streaming Method   Unicat; Multicat     Intelligence   Tripwire and Intrusion. Support alarm triggering by frage types (human and whicle); Support filtering false alarm caused by animak, runtinggering by false alarm caused by animak, runting g	Close Focus Distance	1.5 m (4.92 ft)			
Detect Observe Recognize Identify   2,400 m 948 m 480 m 240 m   72 7 7 7   Pan/Tilt Range Par: 0' to 3/0' endies Tilt: -15' to +90', auto flip 180' Audio   Manual Control Speed Par: 0.1'/s-200'/s Tilt: 100'/s Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1   Manual Control Speed Par: 0.1'/s-200'/s Tilt: 100'/s Network Port RJ-5 (Layer2; G722.1   Preset Speed 900 Network Port RJ-5 (Layer2; G722.1 Network Port   Preset Speed 300 Network Port RJ-5 (Layer2; G722.1   Pattern 300 Network Port RJ-5 (Layer2; G722.1   Pattern 5 Interoperability ONVIF Profile S&G8.7 GGI   Scan 5 Interoperability ONVIF Profile S&G8.7 CGI   Prosect Preset; Pattern; Tour; Scanning User/Host Storage   Intelligence Tripwire and intrusion. Support alarm triggering by rater type: fluenga and whicle's Support flittering Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player   Nty (Perimeter Protection) Tripwire and intrusion. Support flater triggering by rater type: fluenga and whicle's Support flittering Management Software Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player	Iris Control	Auto		Electronic	
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Preset300HTTP; HTTPS; IPV4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPV6; 802.1x; CoS; FTP; UPPP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPD6; RTMP; TCPPattern5InteroperabilityONVIF Profile S&G&T CGIScan5Streaming MethodUnicast; MulticastPower-off MemoryYesUser/Host20 (Total bandwidth 64 M)Idle MotionPreset; Pattern; Tour; ScanningStorageFTP; Micro SD card (512 GB); NASPTZ ProtocolDH-SD Pelco-P/D (Auto recognition)BrowserIE 7 and later versions SafariIntelligenceTripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, brightManagement SoftwareSmart PSS; DSS; IVSS; Configtool; NVR; Smart Player	Manual Control Speed		Network		
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Idle Motion Preset; Pattern; Tour; Scanning Storage FTP; Micro SD card (512 GB); NAS   PTZ Protocol DH-SD Pelco-P/D (Auto recognition) Browser IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari   Intelligence Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright Management Software Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player					
PTZ Protocol DH-SD Pelco-P/D (Auto recognition) Browser IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari   Intelligence Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright Management Software Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player   Mobile Client IOS: Android					
P12 Protocol Pelco-P/D (Auto recognition) Browser Chrome 42 and earlier versions Firefox 52 and earlier versions Safari   Intelligence Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright Management Software Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player   Mobile Client iOS: Android			Storage		
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   Management Software   Smart PSS; DSS; IVSS; Configtool; NVR; Smart Player     Mohile Client   iOS: Android			Browser	Chrome 42 and earlier versions Firefox 52 and earlier versions	
TVS (Perimeter Protection) false alarms caused by animals, rustling leaves, bright Mobile Client	0 -		Management Software		
	IVS (Perimeter Protection)	false alarms caused by animals, rustling leaves, bri	t Mobile Client	iOS; Android	

# Wiz Sense | DH-SD49425XB-HNR-S3

# Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; sending email				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection memory card state detection; memory space detection				
Alarm I/O	2/1				
Power					
Power Supply	12 VDC, 3 A (± 10%) PoE+ (802.3at)				
Power Consumption	Basic: 12 W Max.: 21 W (illuminator + PTZ working)				
Environment					
Operating Conditions	-40 °C to +65 °C (-40 °F to +149 °F)				
Operating Humidity	≤ 95% RH				
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Casing	Aluminum alloy ADC12				
Product Dimensions	295 mm × Φ160 mm (11.61" × Φ6.30")				
Net Weight	2.8 kg (6.17 lb)				
Gross Weight	4.3 kg (9.48 lb)				

#### **Ordering Information** Туре Model Description 4MP 25x Starlight IR WizSense Network PTZ DH-SD49425XB-HNR-S3 Wizsence Camera 4MP IP PTZ Camera 4MP 25x Starlight IR WizSense Network PTZ SD49425XB-HNR-S3 Camera 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

Parapet Mount Bracket

## Accessories

PFB303S

### Included:



PFB305W Wall Mount Bracket

## Optional:



PFA111

Mount Adapter





PFA140 Power Box

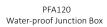


Powe



PFA150 Pole Mount Bracket







PFA151 Corner Mount Bracket

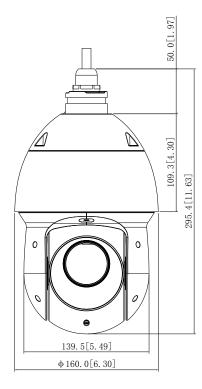
PFB303S Parapet Mount Bracket

www.dahuasecurity.com

# Wiz Sense | DH-SD49425XB-HNR-S3

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount PFB301S-E	Parapet Mount PFA111+PFB303S	

# Dimensions (mm[inch])



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