



# DH-SD5A432XA-HNR

4MP 32x 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**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

#### **Functions**

### **Perimeter Protection**

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

#### 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.

#### **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.

- · 1/2.8" 4Megapixel STARVIS™ CMOS
- · Powerful 32x optical zoom
- · Max. 25/30 fps@4M
- · IR distance up to 150 m
- · Deep-learning-based auto tracking and perimeter protection
- · SMD PLUS
- · PoE+
- · IP67, IK10
- · Face Detection













#### SMD PLUS

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

#### **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.

#### **Auto-tracking**

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

#### 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, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

| Technical Specification             |   |    | IVS                      | Object Abandoned/Missing   |
|-------------------------------------|---|----|--------------------------|--|
| Camera                              |   |    | Smart Capture            | Support human, motor vehicle and non-motor vehicle image capture.  |
| Image Sensor                        | 1/2.8" STARVIS™ CMOS  |    | 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. |
| Pixel                               | 4MP   |    |                          |  |
| Max. Resolution                     | 2560 (H) × 1440 (V)   |    | Face Detection           | Support  |
| ROM                                 | 4 GB  |    | Auto Tracking            | Support  |
| RAM                                 | 1 GB  |    | SMD PLUS                 | Support  |
| Electronic Shutter Speed            | 1/1 s-1/30,000 s  |    | Video                    |  |
| Scanning System                     | Progressive   |    | Compression              | H.265; H.264B; H.264M; H.264H; MJPEG (Sub Stream);   |
| Min. Illumination                   | Color: 0.005 Lux@F1.35<br>B/W: 0.0005 Lux@F1.35<br>0 Lux (IR on)  |    | Streaming Capability     | H.265+; H.264+<br>3 streams  |
| Illumination Distance               | 150 m (492.13 ft)   |    | Resolution               | 4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480);  |
| Illuminator On/Off Control          | Zoom Prio/Manual/SmartIR  |    | Resolution               | CIF (352 × 288/352 × 240)  |
| Illuminator Number                  | 4   |    | Frame Rate               | Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps)<br>Sub stream 1: D1/CIF (1–25/30 fps)<br>Sub stream 2: 720p (1–25/30 fps)   |
| Lens                                |   |    | Bit Rate Control         | Variable/Constant  |
| Focal Length                        | 4.9 mm-156 mm   |    | Bit Rate                 | H.264: 3 Kbps–20480 Kbps<br>H.265: 3 Kbps–20480 Kbps   |
| Max. Aperture                       | F1.35-F4.4  |    | Day/Night                | Auto (ICR)/Color/B/W   |
| Field of View                       | H: 61.6°-2.1°; V: 35.1°-1.3°; D: 68.2°-2  | 5° | BLC                      | Support  |
| Optical Zoom                        | 32x   |    | WDR                      | 120 dB   |
| Focus Control                       | Auto/Semi-Auto/Manual   |    | HLC                      | Support  |
| Close Focus Distance                | 1 m-1.5 m (3.28 ft-4.92 ft)   |    | White Balance            | Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/<br>Natural light/Street lamp  |
| Iris Control                        | Auto/Manual/Fixed   |    | Gain Control             | Auto/Manual  |
| DORI Distance                       | Detect Observe Recogni  |    | Noise Reduction          | 2D/3D  |
|                                     | 3120 m 1232 m 624 r<br>(10236.22 ft) (4041.99 ft) (2047.24  |    | Motion Detection         | Support  |
| PTZ                                 |   |    | Region of Interest (RoI) | Support  |
| Pan/Tilt Pange Pan: 0°–360° endless |   |    | Image Stabilization      | Electronic   |
| Tary The Nange                      | Tilt: -15° to +90°, auto flip 180   |    | Defog                    | Electronic   |
| Manual Control Speed                | Pan: 0.1°/s-300°/s<br>Tilt: 0.1°/s-200°/s   |    | Digital Zoom             | 16x  |
| Preset Speed                        | Pan: 400°/s<br>Tilt: 300°/s   |    | Flip                     | 180°   |
| Presets                             | 300   |    | Privacy Masking          | Up to 24 areas, and up to 8 areas in the same view   |
| Tour                                | 8 (up to 32 presets per tour)   |    | S/N Ratio                | ≥ 55 dB  |
| Pattern                             | 5   |    | Audio                    |  |
| Scan                                | 5   |    | Compression              | G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1;   |
| Power-off Memory                    | Support   |    |                          | G729; G723   |
| Idle Motion                         | Preset/Tour/Pattern/Scanning  |    | Network                  | DL 47 /10/100Daca T\   |
| Protocol                            | DH-SD<br>Pelco-P/D (auto recognition)   |    | Ethernet                 | RJ-45 (10/100Base-T)   |
| Artificial Intelligence             |   |    | Protocol                 | IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;<br>UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP;<br>RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP;<br>RTMP         |
| Event Trigger                       | Motion detection, video tampering, so<br>Network disconnection, IP address co<br>access, and storage anomaly. |    | Interoperability         | ONVIF Profile S&G&T CGI  |
|                                     |   |    |                          |  |

## Wiz Sense | DH-SD5A432XA-HNR

| Wiz Sense             | DH-SD5A432XA-HNR   |
|-----------------------|--|
| Streaming Method      | Unicast/Multicast  |
| User/Host             | 20 (total bandwidth 64M)   |
| Storage               | FTP; Micro SD card (256G); NAS   |
| Browser               | IE7 and later versions<br>Chrome 42 and earlier versions<br>Firefox 52 and earlier versions<br>Safari            |
| Management Software   | Smart PSS; DSS; DMSS; Easy4ip; IVSS  |
| Mobile Phone          | IOS, Android   |
| Certification         |  |
| Certifications        | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB, ANSI C63.4-2014<br>UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |
| Port                  |  |
| Audio I/O             | 1 (Line in; bare wire)/1 (Line out; bare wire)   |
| Alarm I/O             | 2/1  |
| Power                 |  |
| Power Supply          | DC 24 V/2.5 A ± 25%<br>PoE+ (802.3at)  |
| Power Consumption     | Basic: 12 W<br>Max: 20 W   |
| Environment           |  |
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F)   |
| Operating Humidity    | ≤ 95%  |
| Protection            | IP67; IK10; 6000V lightning proof; surge protection; voltage transient protection                                |
| Structure             |  |
| Dimensions            | Φ190 mm × 332 mm (Φ7.48" × 13.07")   |
| Net Weight            | 4.7 kg (10.36 lb)  |

8 kg (17.64 lb)

Gross Weight

| Ordering Information          |                   |   |  |  |  |
|-------------------------------|-------------------|---|--|--|--|
| Туре                          | Model             | Description   |  |  |  |
| 4MP<br>WizSense<br>PTZ Camera | DH-SD5A432XA-HNR  | 4MP 32x Starlight IR WizSense Network PTZ<br>Camera |  |  |  |
|                               | DH-SD5A432XAN-HNR | 4MP 32x Starlight IR WizSense Network PTZ<br>Camera |  |  |  |
|                               | SD5A432XA-HNR     | 4MP 32x Starlight IR WizSense Network PTZ<br>Camera |  |  |  |
|                               | SD5A432XAN-HNR    | 4MP 32x Starlight IR WizSense Network PTZ<br>Camera |  |  |  |
| Accessories                   | PFB305W           | Wall Mount Bracket                                  |  |  |  |
|                               | DC 24 V/2.5 A     | Power Adapter                                       |  |  |  |
|                               | PFA111            | Mount Adapter                                       |  |  |  |
|                               | PFA140            | Power Box   |  |  |  |
|                               | PFB300C           | Ceiling Mount Bracket                               |  |  |  |
|                               | PFA120            | Junction Box  |  |  |  |
|                               | PFA150            | Pole Mount Bracket                                  |  |  |  |
|                               | PFA151            | Corner Mount Bracket                                |  |  |  |
|                               | PFB303S           | Parapet Mount Bracket                               |  |  |  |

## Accessories

## Included:







DC 24 V/2.5 A Power Adapter

### **Optional:**



PFA111 Mount Adapter



PFA120 Junction Box



PFA140 Power Box



PFA150 Pole Mount Bracket



PFB300C Ceiling Mount Bracket

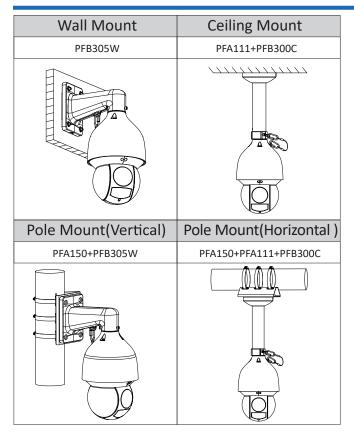


PFA151 Corner Mount Bracket

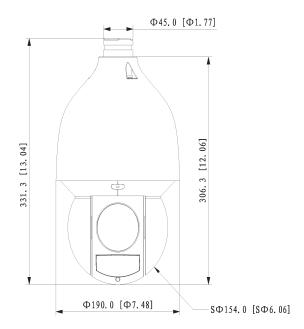


PFB303S Parapet Mount Bracket

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## Dimensions (mm[inch])





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