



# DH-SD59432XA-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**

#### **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.

### **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" STARVIS™ CMOS
- Powerful 32x optical zoom
- Starlight technology
- · Max. 25/30fps@4M
- Deep-learning-based auto tracking and perimeter protection
- Support PoE+
- IR distance up to 150 m
- 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. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating 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.

#### 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 vehicle intrude.



Technical Specification		IVS	Object abandoned/missing
Camera		Artificial Intelligence	
Image Sensor	1/2.8" STARVIS™ CMOS	Smart Capture	Support human, motor vehicle and non-motor vehicle
Pixel	4MP		image capture.  Tripwire and intrusion. Support alarm triggering by
Max. Resolution	2560 (H) x 1440 (V)	Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
ROM	4GB	Face Detection	
RAM	1GB	Face Detection	Support
Electronic Shutter Speed	1/3–1/30000 s	SMD Plus	Support
Scanning System	Progressive	Auto Tracking	Support
Min. Illumination	Color: 0.005Lux@F1.3 B/W: 0.0005Lux@F1.3 OLux (IR light on)	Video Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
Illumination Distance	150 m (492.13 ft)	Streaming Capability	3 streams
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR	0 , ,	4M (2560 × 1440)/3M (2048 × 1536)/1080P (1920 ×
Illuminator Number	4	Resolution	1080)/720P (1280 × 960)/D1 (704 × 576/704 × 480)/ CIF (352 × 288/352 × 240)
Lens		Frame Rate	Main stream: 4M/3M/1080P/1.3M/720P (1–25/30 fg Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720P (1–25/30 fps)
Focal Length	4.9 mm-156 mm	Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.35-F4.4	Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Field of View	H: 68.3°–2.2°; V: 38.9°–1.3°; D: 68.3°–1.4°	Day/Night	Auto (ICR)/Color/B/W
Optical Zoom	32x	BLC	Support
Focus Control	Auto/Semi-Auto/Manual	WDR	120dB
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft )	HLC	Support
Iris Control	Auto/Manual  Detect Observe Recognize Identify	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lam Natural light/Street lamp
DORI Distance	Detect Observe Recognize Identify  3034 m 1213 m 606 m 303 m (9954.06 ft) (3979.66 ft) (1988.19 ft) (994.09 ft)	Gain Control	Auto/Manual
PTZ	(3334.0011) (3373.0011) (334.0311)	Noise Reduction	2D/3D
Pan/Tilt Range	Pan: 0°–360°; Tilt: -10°–+90°	Motion Detection	Support
Manual Control Speed	Pan: 0.1°/s-300°/s; Tilt: 0.1°/s-200°/s	Region of Interest (RoI)	Support
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Image Stabilization	Electronic
Presets		Defog	Support
	300	Digital Zoom	16x
Tour	8 (up to 32 presets per tour)	Flip	0°/180°
Pattern	5	Privacy Masking	Up to 24 areas
Scan	5	Certification	
Speed Adjustment			CE: EN55032/EN55024/EN50130-4
Power-off Memory	Support	Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
Idle Motion	Preset/Tour/Pattern/Scanning	Audio	67444 67444 6799 119 1799
Protocol	DH-SD Pelco-P/D (auto recognition)	Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729 PCM; MPEG2-Layer2
General Intelligence		Port	
Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal	Audio Input  Audio Output	1
	access, and storage anomaly	Addio Odtput	1

# Wiz Sense | DH-SD59432XA-HNR

Alarm I/O	2/1
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP
Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	19 (Total bandwidth 48M)
Storage	FTP; Micro SD card (256G); P2P
Browser	IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari
Management Software	Smart Player Smart PSS DSS Easy4ip
Mobile Phone	IOS/Android

DOWOR

Power Supply	AC24V/3A±25% PoE+ (802.3at)
Power Consumption	11W 24W (IR on)

## Environment

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

#### Structure

Dimensions	Ф186 mm x 309 mm (7.32" × 12.17")
Net Weight	3.9 kg (8.60 lb)
Gross Weight	7.01 kg (15.45 lb)
Casing	Metal

Ordering Information			
Туре	Part Number	Description	
4M WizSense PTZ Camera	DH-SD59432XA-HNR	4MP 32x Starlight IR WizSense Network PTZ Camera, WDR, PAL	
	DH-SD59432XAN-HNR	4MP 32x Starlight IR WizSense Network PTZ Camera, WDR, NTSC	
	SD59432XA-HNR	4MP 32x Starlight IR WizSense Network PTZ Camera, WDR, PAL	
	SD59432XAN-HNR	4MP 32x Starlight IRWizSense Network PTZ Camera, WDR, NTSC	

Accessories	PFB300S	Wall Mount Bracket
	PFA110	Mount Adapter
	AC24V/3A	Power 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:



PFB300S Wall Mount Bracket



PFA110 Mount Adapter



AC24V/3A Power Adapter

## Optional:



PFA140 Power Box

PFA150

Pole Mount Bracket



PFB300C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



Junction Box



PFB303S Parapet Mount Bracket

Ceiling Mount	Junction Mount
PFA110+PFB300C	PFA110+PFB300S+PFA120
Power Box Mount	Pole Mount
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA150
Corner Mount	Parapet Mount
PFA110+PFB300S+PFA151	PFA110+PFB303S

## Dimensions (mm[inch])

