



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. 25/30fps@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	Motion detection, video tampering, scene changing, Network disconnection, IP address conflict, illegal
Camera		Artificial Intelligence	
Image Sensor	1/2.8" STARVIS™ CMOS	Al tilicial liftelligelice	Support human, motor vehicle and non-motor vehicle
Pixel	4MP	Smart Capture	image capture.
Max. Resolution	2560 (H) × 1440 (V)	Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
ROM	4 GB		lights, etc.
RAM	1 GB	Face Detection	Support
Electronic Shutter Speed	1/1 s-1/30000 s	Auto Tracking	Support
Scanning System	Progressive	SMD PLUS	Support
Min. Illumination	Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35 0 Lux (IR on)	Video	H.265; H.264B; H.264M; H.264H; MJPEG (Sub Stream);
Illumination Distance	150 m (492.13 ft)	Compression	H.265+; H.264+
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR	Streaming Capability	3 streams
Illuminator Number	4	Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Lens Focal Length	4.9 mm-156 mm	Frame Rate	Main stream: 4M/3M/1080P/1.3M/720P (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720P (1–25/30 fps)
-	F1.35-F4.4	Bit Rate Control	Variable/Constant
Max. Aperture Field of View	H: 61.6°-2.1°; V: 35.1°-1.3°; D: 68.2°-2.5°	Bit Rate	H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps
Optical Zoom	32x	Day/Night	Auto (ICR)/Color/B/W
Focus Control	Auto/Semi-Auto/Manual	BLC	Support
Close Focus Distance	1 m-1.5 m (3.28 ft-4.92 ft)	WDR	120 dB
Iris Control	Auto/Manual/Fixed	HLC	Support
	Detect Observe Recognize Identify	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
DORI Distance	3120 m 1232 m 624 m 312 m (10236.22 ft) (4041.99 ft) (2047.24 ft) (1023.62 ft)	Gain Control	Auto/Manual
PTZ		Noise Reduction	2D/3D
Pan: 0°=360° and less		Motion Detection	Support
Pan/Tilt Range	Tilt: -15° to +90°, auto flip 180	Region of Interest (RoI)	Support
Manual Control Speed	Pan: 0.1°/s–300°/s Tilt: 0.1°/s–200°/s	Image Stabilization	Electronic
Preset Speed	Pan: 400°/s Tilt: 300°/s	Defog	Electronic
Presets	300	Digital Zoom	16x
Tour	8 (up to 32 presets per tour)	Flip	180°
Pattern	5	Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Scan	5	S/N Ratio	≥ 55 dB
Power-off Memory	Support	Audio	
Idle Motion	Preset/Tour/Pattern/Scanning	Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1;
Protocol	DH-SD Pelco-P/D (auto recognition)	Network	G729; G723
General Intelligence		Ethernet	RJ-45 (10/100Base-T)
Event Trigger	Motion detection, video tampering, scene changing, Network disconnection, IP address conflict, illegal access, and storage anomaly.	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

Wiz Sense | DH-SD5A432XA-HNR

wiz Sense	DH-SDSA432XA-HNK		
Interoperability	ONVIF Profile S&G&T CGI		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth 64M)		
Storage	FTP; Micro SD card (256G); NAS		
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari		
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS		
Mobile 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 Input	1		
Audio Output	1 (LINE OUT; bare wire)		
Two-way Audio	Support		
Alarm I/O	2/1		
Power			
Power Supply	AC 24V/3A ± 25% (standard) PoE+ (802.3at)		
Power Consumption	Basic: 12W Max: 20W		
Environment			
Operating Temperature	-40°C to +70°C (-40°F to +158°F)		

≤ 95%

IP67; IK10; 6000V lightning proof; surge protection;

voltage transient protection

4.7 kg (10.36 lb)

8 kg (17.64 lb)

Φ190 mm × 332 mm (Φ7.48" × 13.07")

Operating Humidity

Protection

Structure

Dimensions

Net Weight

Gross Weight

Α	ccessories
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Included:

Accessories





Ordering Information

Model

DH-SD5A432XA-HNR

DH-SD5A432XAN-HNR

SD5A432XA-HNR

SD5A432XAN-HNR

PFB305W

AC24V/3A

PFA111

PFA140

PFB300C

PFA120

PFA150

PFA151

PFB303S

Type

4MP WizSense PTZ Camera



Description

Camera

Wall Mount Bracket

Ceiling Mount Bracket

Pole Mount Bracket

Corner Mount Bracket

Parapet Mount Bracket

Power Adapter

Mount Adapter
Power Box

Junction Box

4MP 32x Starlight IR WizSense Network PTZ

AC24V/3A Power Adapter

Optional:



PFA111 Mount Adapter





PFA150 Pole Mount Bracket



PFB300C Ceiling Mount Bracket



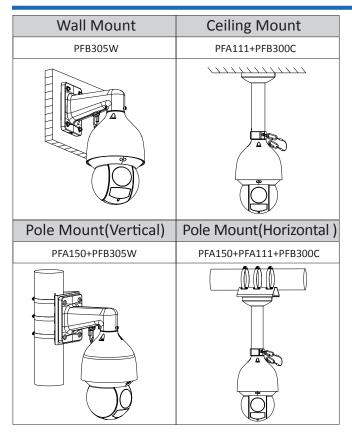
PFA151 Corner Mount Bracket

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PFA120 Junction Box



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

