

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	ı	IVS	Object abandoned/missing	
Camera		Artificial Intelligence	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 target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.	
Max. Resolution	2560 (H) x 1440 (V)	Perimeter Protection		
ROM	4GB	Face Detection	Support	
RAM	1GB	SMD Plus	Support	
Electronic Shutter Speed	1/3–1/30,000 s			
Scanning System	Progressive	Auto Tracking	Support	
Min. Illumination	Color: 0.005 Lux@F1.3 B/W: 0.0005 Lux@F1.3 0 Lux (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	Resolution	4M (2560 × 1440)/3M (2048 × 1536)/1080p (1920 × 1080)/720p (1280 × 960)/D1 (704 × 576/704 × 480)/ CIF (352 × 288/352 × 240)	
Illuminator Number	4		Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps	
Lens		Frame Rate	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	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/	
DORI Distance	Detect Observe Recognize Identify 3034 m 1213 m 606 m 303 m	Gain Control	Natural light/Street lamp Auto/Manual	
	(9954.06 ft) (3979.66 ft) (1988.19 ft) (994.09 ft)	Noise Reduction	2D/3D	
PTZ		Motion Detection	Support	
Pan/Tilt Range	Pan: 0°–360°; Tilt: -10°–+90°			
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	300	Defog	Support	
Tour	8 (up to 32 presets per tour)	Digital Zoom	16x	
Pattern	5	Flip	0°/180°	
Scan	5	Privacy Masking	Up to 24 areas	
Speed Adjustment	Support	Certification		
Power-off Memory	Support	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014	
Idle Motion	Preset/Tour/Pattern/Scanning	Audio		
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,	Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)	
	Network disconnection, IP address conflict, illegal access, and storage anomaly.	Alarm I/O	2/1	

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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; RTMP			
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			
Power				
Power Supply	DC 24 V/2.5 A ± 25%; PoE+(802.3at)			
Power Consumption	11 W 24 W (IR on)			
Environment				
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)			
Operating Humidity	≤ 95%RH			
Protection	IP66; TVS 6000 V 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)			

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		
	DC 24 V/2.5 A	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:







PFA110 Mount Adapter



DC 24 V/2.5 A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

Casing

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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])

