



DH-SD59232XA-HNR

2MP 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@1080P
- · 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 vehic image capture.
Pixel	2MP		Tripwire and intrusion. Support alarm triggering by
Max. Resolution	1920 (H) x 1080 (V)	Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
ROM	4GB		lights, etc.
RAM	1GB	SMD PLUS	Support
Electronic Shutter Speed	1/3–1/30000 s	Auto Tracking	Support
Scanning System	Progressive	Face Detection	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		1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280
Illuminator Number	4	Resolution	× 720)/D1 (704 × 576/704 × 480)/CIF (352 × 288/352 × 240)
Lens			Main standard 100001/1 2M/72001/1 25/205-1
Focal Length	4.9 mm–156 mm	Frame Rate	Main stream: 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)
Max. Aperture	F1.35-F4.4	Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Field of View	H: 62.8°–2.2°; V: 36.7°–1.3°; D: 69.2°–2.6°	Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Optical Zoom	32x		
Focus Control	Auto/Semi-Auto/Manual	Day/Night	Auto (ICR)/Color/B/W
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	BLC	Support
Iris Control	Auto/Manual	WDR	120 dB
DORI Distance	Detect Observe Recognize Idea	HLC	Support
DOM Distance	2092 m 836 m 418m 20 (6863 ft) (2742 ft) (1371 ft) (68	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lam Natural light/Street lamp
PTZ		Gain Control	Auto/Manual
Pan/Tilt Range	Pan: 0°–360°; Tilt: -15°–+90°	Noise Reduction	2D/3D
Manual Control Speed	Pan: 0.1°/s-300°/s; Tilt: 0.1°/s-200°/s	Motion Detection	Support
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Region of Interest (RoI)	Support
Presets	300	Electronic Image Stabilization (EIS)	Support
Tour	8 (up to 32 presets per tour)	Defog	Support
Pattern	5	Digital Zoom	16x
Scan	5	Flip	0°/180°
Speed Adjustment	Support	Privacy Masking	Up to 24 areas
Power-off Memory	Support	Certification	
Idle Motion	Preset/Tour/Pattern/Scanning DH-SD	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Protocol	Pelco-P/D (auto recognition)	Audio	
General Intelligence	Motion detection, video tampering, scene chan	Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729 PCM; MPEG2-Layer2
Event Trigger	network disconnection, IP address conflict, illeg	Port	

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Audio Input	1
Audio Output	1
Alarm I/O	2/1
Network	
Ethernet	RI-45 (10/100Base-T)

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

Power

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	Φ186 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
2M WizSense PTZ Camera	DH-SD59232XA-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera, WDR, PAL
	DH-SD59232XAN-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera, WDR, NTSC
	SD59232XA-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera, WDR, PAL
	SD59232XAN-HNR	2MP 32x Starlight IR WizSense 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:







PFA110 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



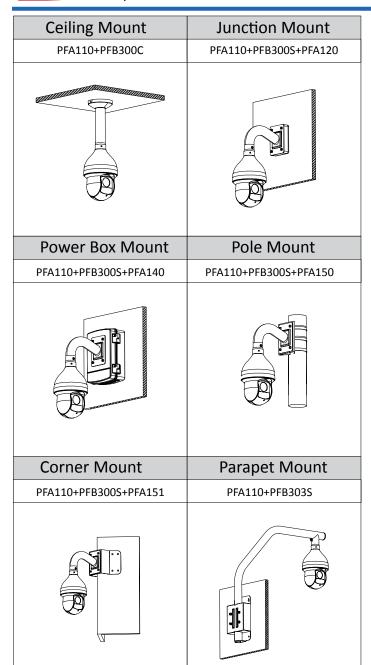
PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

