



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" STAR\	/IS™ CMOS			Smart Capture	Support human, motor vehicle and non-motor vehi image capture.
Pixel	2MP					Tripwire and intrusion. Support alarm triggering by
Max. Resolution	1920 (H) x 10	1920 (H) x 1080 (V)			Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, brig
ROM	4GB				CMD DILIC	lights, etc.
RAM	1GB	1GB			SMD PLUS	Support
Electronic Shutter Speed	1/3-1/30000	O s			Auto Tracking	Support
Scanning System	Progressive	Progressive			Face Detection	Support
Min. Illumination	B/W: 0.0005	Color: 0.005Lux@F1.3 B/W: 0.0005Lux@F1.3			Video Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
Illumination Distance	OLux (IR light				Streaming Capability	3 streams
Illumination Distance	150 m (492.1		I.D.		, , ,	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280
Illuminator On/Off Control		1anual/SmartI	IK .		Resolution	× 720)/D1 (704 × 576/704 × 480)/CIF (352 × 288/35 × 240)
Illuminator Number Lens	4				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)
Focal Length	4.9 mm-156	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	120 dB
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)				HLC	Support
Iris Control	Auto/Manua	Auto/Manual			White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lan Natural light/Street lamp
DORI Distance	Detect 2092 m	Observe 836 m	Recognize 418m	Identify 209m	Gain Control	Auto/Manual
	(6863 ft)	(2742 ft)	(1371 ft)	(685 ft)	Noise Reduction	2D/3D
PTZ					Motion Detection	Support
Pan/Tilt Range		Pan: 0°–360°; Tilt: -15°–+90°			Region of Interest (RoI)	Support
Manual Control Speed Preset Speed	Pan: 0.1°/s-3	:00°/s; Tilt: 0.1	L°/s–200°/s		Electronic Image Stabilization (EIS)	Support
Presets	300				Defog	Support
Tour		resets ner tou	ır)		Digital Zoom	16x
Pattern	5	8 (up to 32 presets per tour)			Flip	0°/180°
Scan					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				Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.72 PCM; MPEG2-Layer2
	. 2.23 1/2 (4)		1		Port	,,
General Intelligence	Motion detection, video tampering, scene changing,					
General Intelligence Event Trigger			ampering, scen		Audio Input	1

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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	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:



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

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])

