



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. 25/30 fps@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 vehicle
Pixel	2MP				Perimeter Protection	image capture. Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Max. Resolution	1920 (H) x 1080 (V)					
ROM	4GB				SMD PLUS	lights, etc. Support
RAM	1GB					Support
Electronic Shutter Speed	1/3–1/30000 s				Auto Tracking	
Scanning System	Progressive				Face Detection	Support
Min. Illumination	Color: 0.005Lux@F1.3 B/W: 0.0005Lux@F1.3				Video Compression	H.265/H.265+/H.264+/H.264/MJPEG (sub stream)
	OLux (IR light on)				Streaming Capability	3 streams
Illumination Distance	150 m (492.13 ft)				0 1	1080p (1920 × 1080)/1.3M (1280 × 960)/720p (1280
Illuminator On/Off Control	Zoom Prio/Manual/	/SmartIR			Resolution	× 720)/D1 (704 × 576/704 × 480)/CIF (352 × 288/352 × 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 mm				Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.35–F4.4				Bit Rate	H.265/H.264: 3 kbps-20,480 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 f	ft-4.92 ft)			HLC	Support
Iris Control	Auto/Manual				White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp Natural light/Street lamp
DORI Distance			ognize 418m	Identify 209m	Gain Control	Auto/Manual
			371 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	Pan: 0.1°/s-300°/s;		00°/s		Electronic Image Stabilization (EIS)	Support
Preset Speed	Pan: 400°/s; Tilt: 300°/s				Defog	Support
Presets	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	op to 24 di cus
Speed Adjustment	Support					CE: EN55032/EN55024/EN50130-4
Power-off Memory	Support				Certifications	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	
Motion detection, video tampering, scene changing, Event Trigger Network disconnection, IP address conflict, illegal				Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)	
Event Trigger	access, and storage anomaly.				Alarm I/O	2/1

RJ-45 (10/100Base-T)
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
ONVIF Profile S&G&T CGI
Unicast/Multicast
19 (Total bandwidth 48M)
FTP; Micro SD card (256G); P2P
IE7 and newer versions Chrome 42 and older versions Firefox 52 and older versions Safari
Smart Player Smart PSS DSS Easy4ip
IOS/Android
DC 24 V/2.5 A ± 25%; PoE+(802.3at)
11 W 24 W (IR on)
-40 °C to +70 °C (-40 °F to +158 °F)
≤ 95%RH
IP66; TVS 6000V lightning protection; surge protection
Ф186 mm x 309 mm (7.32" × 12.17")
3.9 kg (8.60 lb)

7.01 kg (15.45 lb)

Metal

Gross Weight

Casing

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				
	PFB300S	Wall Mount Bracket				
	PFA110	Mount Adapter				
	DC 24 V/2.5 A	Power Adapter				
	PFA140	Power Box				
Accessories	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

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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])

