

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 $\pm 25\%$ 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.



Wiz Sense | DH-SD59232XA-HNR

Technical Specification	I Contraction of the second	IVS	Object Abandoned/Missing
Camera		Artificial Intelligence	
Image Sensor	1/2.8" STARVIS™ CMOS	Smart Capture	Support human, motor vehicle and non-motor vehicle 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 lights, etc.
ROM	4GB	SMD PLUS	Support
RAM	1GB	Auto Tracking	Support
Electronic Shutter Speed	1/3–1/30000 s	Face Detection	Support
Scanning System	Progressive	Video	
Min. Illumination	Color: 0.005Lux@F1.3 B/W: 0.0005Lux@F1.3 0Lux (IR light on)	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	1080p (1920 × 1080)/1.3M (1280 × 960)/720p (1280 × 720)/D1 (704 × 576/704 × 480)/CIF (352 × 288/352
Illuminator Number	4		× 240) Main stream: 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-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 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	Detect Observe Recognize Identify 2092 m 836 m 418m 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 (Rol)	Support
Manual Control Speed Preset Speed	Pan: 0.1°/s–300°/s; Tilt: 0.1°/s–200°/s Pan: 400°/s; Tilt: 300°/s	Electronic Image Stabilization (EIS)	Support
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
	Support	Certification	
Speed Adjustment 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	
	Motion detection, video tampering, scene changing,	Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)
Event Trigger	Network disconnection, IP address conflict, illegal access, and storage anomaly.	Alarm I/O	2/1

Wiz Sense | DH-SD59232XA-HNR

Network

Ethernet	RJ-45 (10/100Base-T)			
Protocol	IPv4; IPv6; HTTP; HTTP5; 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 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			
	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:



PFB300S

Wall Mount Bracket

Optional:

.

PFA140

Power Box



PFA110

Mount Adapter



DC 24 V/2.5 A Power Adapter



PFA120 Junction Box



PFB303S Parapet Mount Bracket







PFA150 Pole Mount Bracket Ceiling Mount Bracket



PFA151 Corner Mount Bracket



















Wiz Sense | DH-SD59232XA-HNR

Ceiling Mount	Junction Mount	Dimensions (mm[inch])	
PFA110+PFB300C	PFA110+PFB300S+PFA120		
		Ø47.0[1.85]	
Power Box Mount	Pole Mount		
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA150	.5.	
		309.4[12.18]	
Corner Mount	Parapet Mount		
PFA110+PFB300S+PFA151	PFA110+PFB303S	154.0[6.06]	
		⊘186.0[7.32]	

Rev 001.001 © 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

