

DH-SD5A232XA-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

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

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.

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" 2Megapixel STARVIS™ CMOS
- · Powerful 32x optical zoom
- · Max. 50/60 fps@1080P
- · IR distance up to 150 m
- · Deep-learning-based auto tracking and perimeter protection
- · SMD PLUS
- · PoE+
- · IP67, IK10
- · Face Detection













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 vehicles intrude.

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.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.





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Technical Specification					Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering
Camera						false alarms caused by animals, rustling leaves, bright lights, etc.
Image Sensor	1/2.8" STARVIS™ CMOS				Face Detection	Support
Pixel	2MP				Auto Tracking	Support
Max. Resolution	1920 (H) x 1080 (V)				SMD PLUS	Support
ROM	4 GB				Video	
RAM	1 GB				Compression	H.265; H.264B; H.264M; H.264H; MJPEG (Sub Stream); H.265+; H.264+
Electronic Shutter Speed	1/1 s-1/30000 s				Streaming Capability	3 streams
Scanning System	Progressive				Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 ×
Min. Illumination	Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35 0 Lux (IR on)				Frame Rate	720); D1 (704 × 576); CIF (352×288) Main stream: 1080P/1.3M/720P (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps)
Illumination Distance	150 m (492.13 ft)				Dit Data Cantrol	Sub stream 2: 720P (1–25/30 fps)
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR				Bit Rate Control	Variable/Constant H.264: 3 Kbps–20480 Kbps
Illuminator Number	4				Bit Rate	H.265: 3 Kbps=20480 Kbps
Lens					Day/Night	Auto (ICR)/Color/B/W
Focal Length	4.9 mm-156 mm				BLC	Support
Max. Aperture	F1.35-F4.4				WDR	120 dB
Field of View	H: 62.8°–2.2°; V: 36.7°–1.3°; D: 69.2°–2.6°				HLC	Support
Optical Zoom	32x				White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Focus Control	Auto/Semi-Auto/Manual				Gain Control	Auto/Manual
Close Focus Distance	1 m-1.5 m (3.28 ft-4.92 ft)				Noise Reduction	2D/3D
Iris Control	Auto/Manual/Fixed				Motion Detection	Support
	Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Support
DORI Distance	2152 m (7060.37 ft)	850 m	430 m (1410.76 ft)	215 m (705.38 ft)	Image Stabilization	Electronic
	(7000.3711)	(2/00./111)	(1410.7611)	(703.3811)	Defog	Electronic
PTZ					Digital Zoom	16x
Pan/Tilt Range	Pan: 0°–360° endless Tilt: –15° to +90°, auto flip 180				Flip	180°
Manual Control Speed	Pan: 0.1°/s-300°/s Tilt: 0.1°/s-200°/s				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Preset Speed	Pan: 400°/s	·			S/N Ratio	≥ 55 dB
Presets	Tilt: 300°/s				Audio	
Tour	300				Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723
Pattern	8 (up to 32 presets per tour) 5				Network	
Scan	5				Ethernet	RJ-45 (10/100Base-T)
Power-off Memory	Support				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
Idle Motion	Preset/Tour/Pattern/Scanning				Interoperability	ONVIF Profile S&G&T CGI
Protocol	DH-SD Pelco-P/D (auto recognition)				Streaming Method	Unicast/Multicast
Artificial Intelligence					User/Host	20 (total bandwidth 64M)
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.				Storage	FTP; Micro SD card (256G); NAS



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Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari			
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS			
Mobile Phone	IOS, Android			
Certification				
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1			
Port				
Alarm I/O	2/1			
Two-way Audio	Support			
Alarm I/O	2/1			
Power				
Power Supply	AC 24V/3A ± 25% (standard) PoE+ (802.3at)			
Power Consumption	Basic: 12W Max: 20W			
Environment				
Operating Temperature	-40°C to +70°C (-40°F to +158°F)			
Operating Humidity	≤ 95%			
Protection	IP67; IK10; 6000V lightning proof; surge protection; voltage transient protection			
Structure				
Dimensions	Φ190 mm × 332 mm (Φ7.48" × 13.07")			
Net Weight	4.7 kg (10.36 lb)			
Gross Weight	8 kg (17.64 lb)			

Ordering Information						
Туре	Model	Description				
2MP WizSense PTZ Camera	DH-SD5A232XA-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera				
	DH-SD5A232XAN-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera				
	SD5A232XA-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera				
	SD5A232XAN-HNR	2MP 32x Starlight IR WizSense Network PTZ Camera				
Accessories	PFB305W	Wall Mount Bracket				
	AC24V/3A	Power Adapter				
	PFA111	Mount 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:







AC24V/3A Power Adapter

Optional:



PFA111 Mount Adapter



PFA120 Junction Box



PFA140 Power Box



PFA150 Pole Mount Bracket



PFB300C Ceiling Mount Bracket

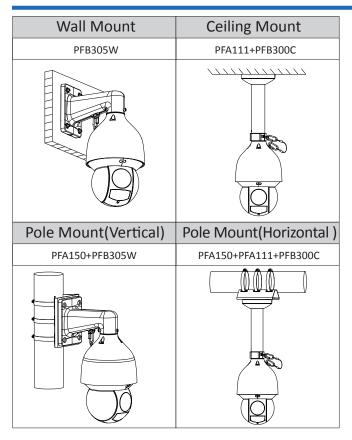


PFA151 Corner Mount Bracket

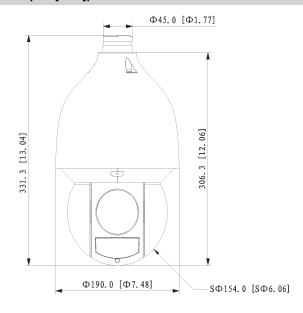


PFB303S Parapet Mount Bracket

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Dimensions (mm[inch])





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