



DH-SD5A825-HNR-YA

8MP 25x 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

With CNN algorithm, Dahua WizSense speed dome supports intelligent functions like tripwire and intrusion, and supports smart capture function that recognizes motor vehicle, non-motor vehicle, and human to analyze their detailed information (plate number, vehicle brand, and human age and gender, etc.). With PFA algorithm, the speed dome can get clear images all the time during zooming. In addition, silent motor driver integrated circuits enable the speed dome to make faint sounds during rotation.

Functions

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.

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.

- · 1/1.8" 8Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight Technology
- · Max. 25/30 fps@8 MP
- · IR distance up to 150 m
- · Deep-learning-based perimeter protection
- · Auto-tracking and IVS
- · PoE+
- · IP67, IK10













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. 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 6KV 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.

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.



Earner	Technical Specification	
Perimeter Protection	Camera	
Perimeter Protection SaPP Sapport Sap	r 1/	
RoM		
RAM 26B		
RAM	80	
Streaming Capability 3 streams 1/15-1/300005 Caning System Progressive Streaming Capability 3 streams 3 streams 4 k (3840 x 2160); 1080P (1920 x 1080); 1.3M (3820 x 2160); 1	2 (
Progressive	utter Speed 1/	
Resolution	tem Pr	
Illumination Distance 150 m (492.13 ft)	ation B/	
Illuminator On/Off Control Zoom Prio/Manual/SmartIR	Distance 15	
Bit Rate		
Day/Night Auto (ICR)/Color/B/W	,	
BLC Support	lumber 4 (
Max. Aperture		
Field of View H: 61.6° –3.6°, V: 35.7° –2°, D: 66.6° –4° Optical Zoom 25x White Balance Muto/Indoor/Outdoor/Tracking/Manual/Sodius Natural light/Street lamp Gain Control Auto/Manual Noise Reduction 2D/3D Dolor Distance Dolor Observe Recognize Dolor Observe Recognize Identify Region of Interest (Rol) Region of Interest (Rol) Defog Support Electronic Defog Support Defog Support PTZ Pan: 0"–360" endless Tilt: .15" –90", auto flip 180" Presets Presets Presets Presets Auto/Manual Defog Support Defog Support Defog Support Flip O'/180° Privacy Masking Up to 24 areas, and up to 8 areas in the same of SNR Ratio SNR Ratio SNR Ratio SNR Ratio Auto/Manual Auto/Manual Auto/Manual Auto/Manual Auto/Manual Auto/Manual Auto/Manual Auto/Manual Defog Support Flip O'/180° Privacy Masking Up to 24 areas, and up to 8 areas in the same of SNR Ratio SNR Ratio SNR Ratio SNR Ratio Auto/Manual Auto/Manual	5.4	
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Detect Observe Recognize Identify DORI Distance 2700 m (8858.27 ft) 2700 m (8858.27 ft) 2700 m (8858.27 ft) 2700 m (8858.37 ft) 270 m (1771.65 ft) 270 m (16x 2x	Distance 0.5	
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PTZ	De	
Defog Support PTZ Digital Zoom 16x Pan/Tilt Range Pan: 0.1°-360° endless Tilt: -15°-+90°, auto flip 180° Flip 0°/180° Manual Control Speed Pan: 0.1°-300°/s Tilt: 0.1°-200°/s Privacy Masking Up to 24 areas, and up to 8 areas in the same of th	270	
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Manual Control Speed Tilt: 0.1°-200°/s S/N Ratio ≥ 56 dB Preset Speed Pan: 400°/s; Tilt: 300°/s Audio Presets 300 G.711A; G.711Mu; G.726; AAC; G.722.1; G.723		
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Presets 300 G.711A; G.711Mu; G.726; AAC; G.722.1; G.723	d Pa	
Compression G.711A; G.711Mu; G.726; AAC; G.722.1; G.723	30	
Tour 8 (up to 32 presets per tour) PCM; MPEG2-Layer2		
Pattern 5 Network	5	
Scan 5 Ethernet RJ-45 (10/100Base-T)	5	
Power-off Memory Support Protocol IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SM UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; N		
Idle Motion Preset/Tour/Pattern/Scanning Interoperability RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARI	Pr	
Protocol DH-SD Pelco-P/D (auto recognition) Streaming Method Unicast/Multicast		
General Intelligence User/Host 20 (total bandwidth 64M)	ntelligence	
IVS Object Abandoned/Missing Storage FTP; Micro SD card (256 G)	Oł	

Wiz Sense | DH-SD5A825-HNR-YA

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vs Phone

Certifications

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
	UL:UL60950-1+CAN/CSA C22.2,No.60950-1

Port

Audio Input	1 (LINE IN; bare wire)
Audio Output	1 (LINE OUT; bare wire)
Alarm I/O	2/1

Power

Power Supply	AC24V/3A ± 25% PoE+ (802.3at)
Power Consumption	11W 20W (PTZ pan/tilt, IR on)

Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%

Structure

Casing	Metal
Dimensions	Φ190 mm × 332 mm (7.48" × 13.07")
Net Weight	4.7 kg (10.36 lb)
Gross Weight	8 kg (17.64 lb)

Ordering Information			
Туре	Model	Description	
8MP WizSense PTZ Camera	DH-SD5A825-HNR-YA	8MP 25x Starlight IR WizSense Network PTZ Camera , PAL	
	DH-SD5A825N-HNR-YA	8MP 25x Starlight IR WizSense Network PTZ Camera , NTSC	
	SD5A825-HNR-YA	8MP 25x Starlight IR WizSense Network PTZ Camera , PAL	
	SD5A825N-HNR-YA	8MP 25x Starlight IR WizSense Network PTZ Camera , NTSC	
Accessories	PFB305W	Wall Mount Bracket	
	AC24V/3A	Power Adapter	
	PFA111	Mount Adapter	

Accessories	PFA140	Power Box
	PFB300C	Ceiling Mount Bracket
	PFA120	Junction Box
	PFA150	Pole Mount Bracket
	PFA151	Corner Mount Bracket
	PFB303S	Parapet Mount Bracket

Accessories

Included:



PFB305W Wall Mount Bracket



AC24V/3A Power Adapter

Optional:



PFA111 Mount Adapter

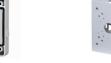




PFB300C Ceiling Mount Bracket



PFA120 Junction Box



Pole Mount Bracket

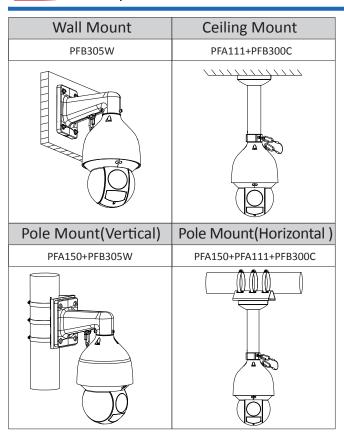


PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

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Dimensions (mm[inch])

