

DH-SD5A825GB-HNR

8MP 25× Starlight IR WizSense Network PTZ Camera



Wiz Sense

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

Unique and elegant, the black semicircular sphere discreetly monitors from a distance without drawing undue attention to itself. It has a powerful optical zoom, and accurate pan, tilt and zoom capabilities, providing an all-in-one solution for long distance video surveillance of outdoor scenes. Together with infrared illumination and Starlight Technology, the camera is a great solution for dark, low light conditions. The series combines a day and night mechanical IR cut filter to produce high quality images in variable lighting conditions during the day, and True WDR for locations with direct sunlight and glare.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

- · 1/2.8" 8Megapixel CMOS.
- · Powerful 25× optical zoom.
- · Starlight Technology.
- · Max. 25/30fps@8MP.
- · IR distance up to 150 m.
- · Deep-learning-based perimeter protection.
- · Auto-tracking 3.0 and IVS.
- · PoE+.
- · IP67, IK10.
- · SMD 4.0.
- · Quick Pick.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

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.

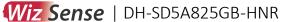
Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Tochnical Specification	2	Supports face o	etection, capturing snapshots,	
Technical Specification Camera		Face Detection uploading face and selecting a	snapshots, enhancing face images, preferred image among a group of ibute extraction is also supported.	
Image Sensor	1/2.8" CMOS Auto Tracking Yes		bute extraction is also supported.	
Pixel	8 MP	SMD SMD4.0		
Max. Resolution	3840 (H) × 2160 (V)	Ouick Pick With Al NVR, qu	uickly pick up the human/vehicle	
ROM	4 GB	targets that use	targets that users are interested in from SMD events	
RAM	1 GB	Video	Video H.264H;H.264B;Smart H.265+;H.264;H.265;Smart	
Electronic Shutter Speed	1s-1/30,000s	Video Compression H.264+;MJPEG	;SIIIdI t	
Scanning System	Progressive	Streaming Capability 3 streams		
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (IR light on)	Resolution 1536); 3M (230 (1920 × 960); 7.	0); 4M (2560 × 1440); 3M (2048 × 4 × 1296); 1080p (1920 × 1080); 960p 20p (1280 × 720); D1 (704 × 576/704 × 288/352 × 240); VGA (640 × 480)	
Illumination Distance	150 m (492.13 ft) (IR)	, ,	Main stream: 4K/4M/3M/1080p/1.3M/720p @	
Illuminator On/Off Control	Zoom Prio; manual; auto; off	m Prio; manual; auto; off Video Frame Rate (1–25/30 fps) Sub stream 1: D1/CIF/VGA @ (1–25/30 fps)		
Illuminator Number	4 (IR)	Bit Rate Control CBR/VBR	080p/ 1.3ivi/ /20p @(1-23/30 ips/	
Lens		H264: 128 khns	–16384 khns	
Focal Length	5 mm-125 mm	Video Bit Rate H265: 51 kbps-		
Max. Aperture	F1.6-F3.6	Day/Night Auto (ICR)/Colo	r/B/W	
Field of View	H: 55.6°–3.2°; V: 32.2°–1.8°; D: 62.5°–3.7°	BLC Yes		
Optical Zoom	25×	WDR 120 dB		
Focus Control	Auto; semi-auto; manual	HLC Yes		
Close Focus Distance	0.1 m-2 m (0.33 ft-6.6 ft)	White Balance Auto; indoor; o	utdoor; tracking; manual; sodium	
Iris Control	Auto; manual	Gain Control Auto; manual		
DORI Distance	Detect Observe Recognize Identify	Noise Reduction 2D NR; 3D NR		
	3,333.3 m 1,316.7 m 666.7 m 333.3 m (10,936.02 ft) (4,319.88 ft) (2,187.34 ft) (1,093.50	Motion Detection Yes		
PTZ		Region of Interest (RoI) Yes		
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -15 ° to $+90$ °, auto flip 180 °	Image Stabilization EIS		
Manual Control Speed	Pan: 0.1°/s-300°/s Tilt: 0.1°/s-200°/s	Defog Electronic		
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Digital Zoom 16×		
Preset	300	Image Rotation 180°		
Tour	8 (up to 32 presets per tour)	Up to 24 areas	Up to 24 areas can be set, with up to 8 areas in the	
Pattern	5	Privacy Masking same view; multiple colors	available	
Scan	5	S/N Ratio ≥55 dB		
Power-off Memory	Yes	Audio	Audio	
Idle Motion	Pattern;Preset;Scan;Tour		.711Mu; G.726; MPEG2-Layer2;	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Network	G/22.1, G/23, G/23	
Intelligence		Network Port RJ-45 (10/100 E		
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	FTP;RTMP;IPv6 Network Protocol TP;802.1x;HTTI	;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;R :S;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP; P;SSL;DHCP;SMTP;Qos;RTSP;ARP	
	alarm classification; linkage tracking		(Profile S&G&T)	
		, 20,200	,	



Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (512 GB); FTP/SFTP; NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DSS;DMSS;Easy4ip;Smart PSS;IVSS
Mobile Client	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 Input	2 (on-off value input: 0–5 VDC)
Alarm Output	1
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card status detection; memory space detection
Power	
Power Supply	24 VDC, 2.5 A ± 25% PoE+ (802.3at)
Power Consumption	Basic: 12 W Max.: 21 W (Illuminator and PTZ)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Protection	IP67, IK10, TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	Φ190.0 mm × 332.0 mm (Φ7.48" × 13.07")
Net Weight	4.7 kg (10.36 lb)
Gross Weight	8.0 kg (17.64 lb)

Ordering Information				
Туре	Model	Description		
8MP WizSense PTZ Camera	DH-SD5A825GB-HNR	8MP 25x Starlight IR WizSense Network PTZ Camera		
	SD5A825GB-HNR	8MP 25x Starlight IR WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC24V/2.5A	Power Adapter		
	PFA111	Mount Adapter		
	PFA140	Power Box		
	PFB300C	Ceiling Mount Bracket		
	PFB301C	Ceiling Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		
	PFA120	Junction Box		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		

Accessories

Included:



Wall Mount Bracket





DC24V/2.5A Power Adapter

Optional:



PFA111 Mount Adapter



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



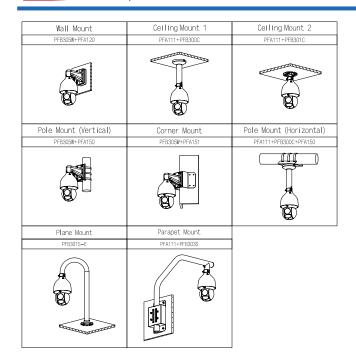
PFA120 Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



Dimensions (mm[inch])

