

DH-SD6C3825GA-HNR-A-PV1

8MP 25 Starlight TiOC 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 its powerful optical zoom, and accurate pan and tilt capabilities, the PTZ camera provides 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.

Functions

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.

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.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- · 1/1.8" 8Megapixel STARVIS™ CMOS.
- · 25× optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@8M.
- · IR distance up to 150 m.
- · Auto-tracking 3.0.
- \cdot Perimeter protection.
- · Face detection.
- · SMD 4.0.
- · Full-color illuminator; red and blue warning light.
- · IP66.
- · PoE (802.3at).











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.

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.

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.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification	ı	Intelligence		
Camera			Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	
Image Sensor	1/1.8" CMOS	IVS (Perimeter Protection)	parking detection; people gathering; vehicle/human alarm classification; linkage tracking	
Pixel	8 MP		Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.	
Max. Resolution	3840 (H) × 2160 (V)			
ROM	4 GB	Face Detection		
RAM	1 GB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)	Auto Tracking		
Illumination Distance	50 m (164.04 ft) (white light)	SMD	SMD 4.0	
	150 m (492.13 ft) (IR) Zoom Prio; Manual; Smart IR; Off	Auto Debug	It triggers the IVS rule when a target is detected and	
Illuminator On/Off Control	2 (IR)	Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.	
Illuminator Number	2 (Dual light fusion)	Active Deterrence		
Lens		Light Warning	Red and blue warning light. They can be configured to flash for 5 to 30 seconds with a high, medium or low	
Focal Length	5.4 mm–135 mm	Sound Warning	frequency. Customizable sound alarm	
Max. Aperture	F1.6–F4.0	Video	customizable sound diami	
Field of View	H: 61.6°–3.6°; V: 35.7°–2°; D: 66.6°–4°		H.264H; H.264B; Smart H.265+; H.264; H.265;	
Optical Zoom	25×	Video Compression	MJPEG(Sub Stream); Smart H.264+	
Focus Control	Auto; semi-auto; manual	Streaming Capability	3 streams	
Close Focus Distance Iris Control	0.1 m–2 m Auto; manual	Resolution	4K (3840 × 2160); 4M (2560 × 1440); 3M (2304 × 1296); 3M (2048 × 1536); 1080p (1920 × 1080); 960p (1920 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
	Detect Observe Recognize Identify 2700 m (8856.27 ft) 1066.5 m (2499.02 ft) 540 m (1771.65 ft) 270 m (885.83 ft)	Video Frame Rate	Main stream: 8M/4M/3M/1080p/1.3M/720p@ (1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)	
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a	Bit Rate Control	CBR/VBR	
DONI DISTANCE	standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this	Video Bit Rate	H264: 128~16384 Kbps H265: 51~12288 Kbps	
	table do not reflect intelligent function distances. For intelligent function distances, refer to installation and	Day/Night	Auto (ICR)/Color/B/W	
commissioning manual/project design tool. PTZ		BLC	Yes	
	Pan: 0° to 360° endless	WDR	120 dB	
Pan/Tilt Range	Tilt: -20° to +90°, auto flip 180°	HLC	Yes	
Manual Control Speed	Pan: 0°/s–240°/s Tilt: 0°/s–120°/s	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Preset Speed	Pan: 240°/s Tilt:120°/s	Gain Control	Auto; manual	
Preset	300	Noise Reduction	2D NR; 3D NR	
Tour	8 (up to 32 presets per tour)	Motion Detection	Yes	
Pattern	5	Region of Interest (RoI)	Yes	
Scan	5	Image Stabilization	Electronic (EIS)	
Power-off Memory	Yes	Defog	Electronic	
Idle Motion	Pattern;Preset;Scan;Tour	Digital Zoom	16×	

Image Rotation	180°	
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available	
S/N Ratio	≥55 dB	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;F TP;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICM UDP;IGMP;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP	
Interoperability	CGI;SDK;ONVIF (Profile S&G&T)	
Streaming Method	Unicast/Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	FTP/SFTP; Micro SD card (512 GB); 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	
Mobile Client	iOS;Android	
Certifications		
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4	
Port		
Audio Input	1 channel	
Audio Output	1 channel	
Alarm Linkage	Capture; recording; send email; preset; tour; pattern alarm digital input; audio; warning light	
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection	
Alarm I/O	2/1	
Audio I/O	1/1	
Power		
Power Supply	24 VDC/2.5 A ± 25% (included) PoE+ (802.3at)	
Power Consumption	Basic: 13 W Max.: 23 W (illuminator + red and blue warning light + speaker + PTZ working)	
Environment		
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Operating Humidity	≤95%	
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	325.3 mm × Φ202.0 mm (12.81" × Φ7.95")	

Net Weight	4.6 kg (10.14 lb)
Gross Weight	7.13 kg (15.72 lb)

Ordering Information				
Туре	Model	Description		
8MP TiOC WizSense PTZ Camera	DH-SD6C3825GA-HNR- A-PV1	8MP 25x TiOC WizSense Network PTZ Camera		
	SD6C3825GA-HNR-A-PV1	8MP 25x TiOC WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC 24 V/2.5 A	Power Adapter		
	PFA111	Mount Adapter		
	PFB301C	Ceiling Mount Bracket		
	PFB300C	Ceiling Mount Bracket		
	PFA126	Junction Box		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFB301S-E	Plane Mount Bracket		
	PFB303S	Parapet Mount Bracket		

Accessories

Included:







DC24V/2.5A Power Adapter

Optional:



PFA111 Mount Adapter



PFB301C Ceiling Mount Bracket



PFB300C Ceiling Mount Bracket



PFA126 Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB301S-E Plane Mount Bracket



PFB303S Parapet Mount Bracket

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Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA126	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm[inch])



