

DH-SD4E825GB-HNR-A-PV1

8MP 25X TiOC 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

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. TiOC PTZ cameras adopt auto-tracking 3.0 technology, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

Functions

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.

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.

- · 1/2.8" 8Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@8M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Perimeter protection.
- · Face detection.
- · SMD 4.0.
- · IP66.
- · Full-color illuminator; red and blue warning light.













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.

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.

Protection (IP66, TVS 6000 V)

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

Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking 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.

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.

Technical Specification				Face Detection	Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute Extraction is also
Camera					
Image Sensor	1/2.8" CMOS				supported, where 6 attributes and 8 expressions can be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size
Pixel	8 MP				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			Auto Tracking	Yes
RAM	1 GB			SMD	SMD4.0
Electronic Shutter Speed	1 s-1/30,000 s			Quick Pick	Yes
Scanning System	Progressive			Active Deterrence	
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on)			Light Warning	Red-blue light warning Flash duration: 5 s = 30 s Flash frequency: high, medium, low
Illumination Distance	100 m (328.08 ft) (IR); 50 m (164.04 ft) (White light)			Sound Warning	Offers 11 types of sound alarms, and supports importing custom sound alarms.
Illuminator On/Off Control	Zoom Prio; Manual; Auto	Zoom Prio; Manual; Auto; Off			
Illuminator Number	2 (IR); 2 (Dual light fusion	2 (IR); 2 (Dual light fusion)			H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream); Smart H.264+; H.264M
Lens					3 streams
Focal Length	5 mm-125 mm			Streaming Capability	4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 ×
Max. Aperture	F1.6-F3.6			Resolution	1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Field of View	H: 53.1°-3.4°; V: 30.4°-1.9°; D: 59.3°-3.9°				480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Optical Zoom	25 x			Video Frame Rate	Main stream: 4K/4M/3M/1080p/1.3 M/720p@ (1–25/30 fps) Sub stream 1: D1/CIF/VGA@(1–25/30 fps) Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps)
Focus Control	Auto; semi-auto; manual				
Close Focus Distance	0.1m-1.5 m (0.33 ft-4.92 ft)			Bit Rate Control	CBR/VBR
Iris Control	Auto; manual			Video Bit Rate	H264: 128 Kbps–16,384 Kbps H265: 128 Kbps–11,776 Kbps
DORI Distance	Detect Observe	Recognize	Identify	Day/Night	Auto (ICR); Color/B/W
	3310 m 1308 m (10859.58 ft) (4291.34 ft)	662 m (2171.92 ft)	331 m (1085.96 ft)	BLC	Yes
PTZ				WDR	DWDR
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -15° to +90°, auto flip 180°			HLC	Yes
Manual Control Speed	Pan: 0.1°/s-200°/s; Tilt: 0.1°/s-120°/s			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Preset Speed	Pan: 0.1°/s–240°/s;			Gain Control	Auto; manual
Preset	300	Tilt: 0.1°/s=200°/s			2D NR; 3D NR
Tour	8 (up to 32 presets per to	8 (up to 32 presets per tour)			Yes
Pattern	5	, , ,			Yes
Scan	5			Image Stabilization	Electronic (EIS)
Power-off Memory	Yes			Defog	Electronic
Idle Motion	Pattern; Preset; Scan; Tour			Digital Zoom	16×
Intelligence				Image Rotation	180°
IVS (Perimeter Protection)	Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; linkage tracking			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; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP				
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2P				
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	DMSS; DSS Pro				
Mobile Client	iOS; Android				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Audio Input	1 channel (LINE IN, bare wire)				
Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))				
Alarm Input	2 (on-off value input: 0–5 VDC)				
Alarm Output	1 channel				
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
Power					
Power Supply	12 VDC, 3 A ± 10%; PoE+ (802.3at)				
Power Consumption	12 VDC: Basic: 8 W; Max: 16 W (white light + heated glass + PTZ on + alarm + red and blue light flashing) POE: Basic: 9 W; Max: 17 W (white light + heated glass + PTZ on + alarm + red and blue light flashing)				
Environment					
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)				
Operating Humidity	≤ 95%				
Protection	TVS 6000 V lightning proof; IP66; surge protection; voltage transient protection				
Structure					
Product Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")				

Net Weight	2.6 kg (5.73 lb)
Gross Weight	4 kg (8.82 lb)

Ordering Information						
Туре	Model	Description				
8MP WizSense PTZ Camera	DH-SD4E825GB-HNR- A-PV1	8MP 25x Starlight IR WizSense Network PTZ Camera				
	SD4E825GB-HNR-A-PV1	8MP 25x Starlight IR WizSense Network PTZ Camera				
Accessories	PFB305W	Wall Mount Bracket				
	DC12V/3A	Power Adapter				
	PFA126	Mount Adapter				
	PFA111	Mount Adapter				
	PFB300C	Ceiling Mount Bracket				
	PFB301C	Ceiling Mount Bracket				
	PFA151	Corner Mount Bracket				
	PFA150	Pole Mount Bracket				
	PFB303S	Parapet Mount Bracket				
	PFB301S-E	Plane Mount Bracket				

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA126 Mount Adapter



PFA111 Junction Box



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket





