

# DH-SD3E410DB-GNY-A-PV1

4MP 10x 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. With horizontal and vertical rotation of TiOC PTZ camera, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

## **Functions**

## 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.

## **Siren And Light Active Deterrence**

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

- · 1/2.8"4Megapixel CMOS.
- · 10x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 70 m.
- · Warm light illumination distance up to 30 m.
- · SMD 3.0.
- · Perimeter protection.
- · Face detection.
- · Two-way Talk.
- · IP66.
- · Red and blue warning light.



#### **Smart Dual Light**

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

### **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 3.0**

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

## Protection (IP66, TVS 2000 V)

IP66, TVS 2000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification					Power-off Memory	Yes
Camera					Idle Motion	Preset; Tour
Image Sensor	1/2.8" CMOS				Intelligence	
Pixel  Max. Resolution	4 MP 2560 (H) × 1440 (V)				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human
ROM	128 MB					alarm classification; linkage tracking (people)  Supports face detection, snapshot, and face
RAM	512 MB				Face Detection	enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first
Electronic Shutter Speed	1/1 s-1/30,000 s					
Scanning System	Progressive				Auto Tracking	Auto tracking Lite
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				SMD Active Deterrence	SMD 3.0
Illumination Distance	70 m (229.66 ft) (IR) 30 m (98.43 ft) (Warm light)				Light Warning	Red and blue light warning Flash duration: 5 s-30 s Flash frequency: high, medium, low
Illuminator On/Off Control	2 (IR)	Zoom Prio; Manual; Auto; Off 2 (IR)			Sound Warning	Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound alarm can be set to play 1 to 10 times
Illuminator Number	2 (Dual-core light) 1 (Red light) 1 (Blue light)				Video	
Lens					Video Compression	H.265; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
Focal Length	4 mm-40 mm				Streaming Capability	3 streams
Max. Aperture	F1.6–F3.0 H: 50.7°–11.0°;				Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Field of View	V: 27.6°–6.3°; D: 57.6°–12.5°					× 240)  Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30
Optical Zoom	10×				fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)	
Focus Control	Auto; semi-auto	•			Bit Rate Control	CBR/VBR
Close Focus Distance Iris Control	1m-1.5 m (3.28 ft-4.92 ft) Fixed				Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
ins control		Observe	Docogniza	Idontifu	Day/Night	Auto (ICR)/Color/B/W
	Detect 800 m	316 m	Recognize 160 m	Identify 80 m		
	(2624.67 ft) (1036.75 ft) (524.93 ft) (262.47 ft)				BLC	Yes
DORI Distance	*DORI (Detect, standard syster		-		WDR	120 dB
	of a person view or objects withi	wing the vid	eo to distinguis	sh persons	HLC	Yes
	table do not ref intelligent func	flect intellige tion distanc	ent function dis es, refer to inst	stances. For tallation and	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	commissioning	manual/pro	ject design toc	ol.	Gain Control	Auto; manual
PTZ	D 22:				Noise Reduction	2D NR; 3D NR
Pan/Tilt Range	Pan: 0° to 355° Tilt: –15° to +90°				Motion Detection	Yes
Manual Control Speed	Pan: 0.1°/s–36°/s; Tilt: 0.1°/s–25.8°/s				Region of Interest (RoI)	Yes
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s				Image Stabilization  Defog	Electronic (EIS)
Preset	300				Digital Zoom	16×
Tour	8 (up to 32 presets per tour)				-	180°
Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.				Image Rotation S/N Ratio	≥55 dB

Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2_Layer2; G.722.1	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SMB; NFS	
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2P	
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	DMSS; DSS Pro; NVR	
Mobile Client	iOS; Android	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4	
Port		
Audio Input	$1\mbox{channel}$ (LINE IN, bare wire, built-in mic (mutually exclusive))	
Audio Output	1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive))	
Alarm Linkage	Capture; recording; send email; preset; 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	1/1	
Audio I/O	1/1	
Power		
Power Supply	12 VDC, 2 A ± 10% PoE+ (802.3at)	
Power Consumption	Basic: 3 W Max.: 12 W (Warning light + illuminator + PTZ + speaker + heating glass) (12 VDC) Basic: 4 W Max.: 14 W (Warning light + illuminator + PTZ + speaker + heating glass) (PoE)	
Environment		
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Operating Humidity	≤95%	
Protection	IP66; TVS 2000 V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	142.6 mm × 151.8 mm × 236.2 mm (5.61" × 5.98" × 9.30 ") (L × W × H)	
Net Weight	1.58 kg (3.48 lb)	

Gross Weight	2 kg (4.41 lb)
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\*The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high requirements on the precision, contact your local sales representative for assistance with selecting the model.

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD3E410DB-GNY- A-PV1	4MP 10x TiOC WizSense Network PTZ Camera		
	SD3E410DB-GNY-A-PV1	4MP 10x TiOC WizSense Network PTZ Camera		
Accessories (Optional)	PFA121	Junction Box		
	PFA152-E	Pole Mount Bracket		
	DC 12 V/2A	Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

## **Accessories**

## Optional:







PFA121 Junction Box

PFA152-E Pole Mount Bracket

PFM320D 12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount
/	/
Pole Mount(Vertical)	
PFA121+PFA152-E	7

# Dimensions (mm[inch])



