

# 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		PTZ Locked	Yes	
Pixel	4 MP		Intelligence	Intelligence	
Max. Resolution	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 alarm classification; linkage tracking (people)	
ROM	128 MB				
RAM	512 MB			Supports face detection, snapshot, and face enhancement;	
Electronic Shutter Speed	1/1 s-1/30,000 s	1/1 s-1/30,000 s		Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first	
Scanning System	Progressive	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)		Auto Tracking	Auto tracking Lite	
			SMD	SMD 3.0	
Illumination Distance	70 m (229.66 ft) (IR) 30 m (98.43 ft) (Warm lig	nt)	Active Deterrence	Active Deterrence	
Illuminator On/Off Control	Zoom Prio; Manual; Auto;	Off	Light Warning	Red and blue light warning Flash duration: 5 s – 30 s Flash frequency: high, medium, low	
Illuminator Number	2 (IR) 2 (Dual-core light) 1 (Red light) 1 (Blue light)		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	
Lens	, ,		Video		
Focal Length	4 mm-40 mm		Video Compression	H.265; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+	
Max. Aperture	F1.6-F3.0		Streaming Capability	3 streams	
Field of View	H: 50.7°–11.0°; V: 27.6°–6.3°; D: 57.6°–12.5°		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 × 240)	
Optical Zoom	10×			Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30	
Focus Control	Auto; semi-auto; manual		Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps)	
Close Focus Distance	1m-1.5 m (3.28 ft-4.92 ft)		Dit Data Cantual	Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)	
Iris Control	Fixed		Bit Rate Control	CBR/VBR H.264: 96 kbps–14848 kbps	
	Detect Observe	Recognize Identify	Video Bit Rate	H.265: 38 kbps–8960 kbps	
	800 m 316 m (2624.67 ft) (1036.75 ft)	160 m 80 m (524.93 ft) (262.47 ft)	Day/Night	Auto (ICR)/Color/B/W	
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a 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 table do not reflect intelligent function distances. For		BLC	Yes	
DORI DISTANCE			WDR	120 dB	
			HLC	Yes	
intelligent function distances, refer to installation and commissioning manual/project design tool.		White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp		
PTZ			Gain Control	Auto; manual	
Pan/Tilt Range	Pan: 0° to 355° Tilt: –15° to +90°		Noise Reduction	2D NR; 3D NR	
Manual Control Speed	Pan: 0.1°/s-36°/s; Tilt: 0.1°/s-25.8°/s		Motion Detection	Yes	
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s		Region of Interest (RoI)	Yes	
Preset	300		Image Stabilization	Electronic (EIS)	
Tour	8 (up to 32 presets per to	ur)	Defog	Electronic	
	It triggers the IVS rule when a target is detected and		Digital Zoom	16×	
Auto Patrol makes the camera link with the PTZ to rotate to t position of the target and patrol based on its pre			Image Rotation	180°	

WIZ Selise   Di	1-3D3L410DB-GN1-A-FV1	
S/N Ratio	≥55 dB	
Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available	
Audio	same nem, o colors aramane	
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2_Layer2; G.722.1	
Network	0.722.1	
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; 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 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	
/	1	
Pole Mount(Vertical)		
PFA121+PFA152-E		

# Dimensions (mm[inch])



