

# 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**

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					Intelligence	
Camera	or 1/2.8" CMOS				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human
Image Sensor					alarm classification; linkage tracking (people)	
Pixel  Max. Resolution	4 MP 2560 (H) × 1440 (V)				Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing
ROM	128 MB					and quality first
RAM	512 MB				Auto Tracking Lite	Yes
Electronic Shutter Speed	1/1 s-1/30,0	000 s			SMD	Yes
Scanning System	Progressive				Active Deterrence	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				Light Warning	Red and blue light warning Flash duration: 5 s = 30 s Flash frequency: high, medium, low
Illumination Distance	70 m (229.66 30 m (98.43	5 ft) (IR) ft) (Warm ligh	t)		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 On/Off Control	Zoom Prio; N	/lanual; Auto; (	Off		Video	
Illuminator Number	2 (IR) 2 (Dual-core 1 (Red light)	light)			Video Compression	H.265; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
	1 (Blue light)				Streaming Capability	3 streams
Lens Focal Length	4 mm-40 mm				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
Max. Aperture	F1.6-F3.0					× 240)  Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30
Field of View	H: 50.7°-11.0°; V: 27.6°-6.3°; D: 57.6°-12.5°				Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)
Optical Zoom	10×				Bit Rate Control	CBR/VBR
Focus Control	Auto; semi-a	uto; manual			Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Close Focus Distance	1m-1.5 m (3.28 ft-4.92 ft)				Day/Night	Auto (ICR)/Color/B/W
Iris Control	Fixed				BLC	Yes
	Detect	Observe	Recognize	Identify	WDR	120 dB
	800 m	316 m	160 m	80 m	HLC	Yes
DORI Distance			(524.93 ft) ecognize, Ident 6-4) for definin		White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	of a person v	viewing the vid	leo to distinguis d area. The num	sh persons	Gain Control	Auto; manual
	table do not	reflect intellig	ent function di	stances. For	Noise Reduction	2D NR; 3D NR
	intelligent function distances, refer to installation and commissioning manual/project design tool.				Motion Detection	Yes
PTZ					Region of Interest (RoI)	Yes
Pan/Tilt Range	Pan: 0° to 35 Tilt: –15° to -				Image Stabilization	Electronic (EIS)
Manual Control Speed	Pan: 0.1°/s-27.31°/s Tilt: 0.1°/s-19.30°/s				Defog	Electronic
Preset Speed	Pan: 24.32°/s; Tilt: 18.75°/s				Digital Zoom	16×
Preset	300				Image Rotation	180°
Power-off Memory	Yes				S/N Ratio	≥55 dB
Idle Motion	Preset				Audio	
TAIC INICUOT	116361				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; 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	$1\mbox{channel}$ (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)		
*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	1
Pole Mount(Vertical)	
PFA121+PFA152—E	-

# Dimensions (mm[inch])



