

# 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			Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo;
Camera		Face Detection	
Image Sensor	1/2.8" CMOS		Capturing strategies include real-time capturing and quality first
Pixel	4 MP	Auto Tracking Lite	Yes
Max. Resolution	2560 (H) × 1440 (V)	SMD	Yes
ROM	128 MB	Active Deterrence	
RAM	512 MB	Light Warning	Red and blue light warning Flash duration: 5 s-30 s Flash frequency: high, medium, low
Electronic Shutter Speed	1/1 s-1/30,000 s		
Scanning System	Progressive	Sound Warning	Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 O lux (IR light on)	Video	alarm can be set to play 1 to 10 times
Illumination Distance	70 m (229.66 ft) (IR) 30 m (98.43 ft) (Warm light)	Video Compression	H.265; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Streaming Capability	3 streams
Illuminator Number	2 (IR) 2 (Dual-core light) 1 (Red light) 1 (Blue light)	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)
Lens		Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30 fps) Sub stream 1: D1/VGA/CIF@ (1–25/30 fps)
Focal Length	4 mm-40 mm		Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)
Max. Aperture	F1.6–F3.0 H: 50.7°–11.0°;	Bit Rate Control	CBR/VBR
Field of View	V: 27.6°–6.3°; D: 57.6°–12.5°	Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Optical Zoom	10×	Day/Night	Auto (ICR)/Color/B/W
Focus Control	Auto; semi-auto; manual	BLC	Yes
Close Focus Distance	1m-1.5 m (3.28 ft-4.92 ft)	WDR	120 dB
Iris Control	Fixed	HLC	Yes
	Detect Observe Recognize Identify	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	800 m 316 m 160 m 80 m (2624.67 ft) (1036.75 ft) (524.93 ft) (262.47 ft)	Gain Control	Auto; manual
PTZ		Noise Reduction	2D NR; 3D NR
Pan/Tilt Range	Pan: 0° to 355°	Motion Detection	Yes
	Tilt: -15° to +90° Pan: 0.1°/s-27.31°/s	Region of Interest (RoI)	Yes
Manual Control Speed	Tilt: 0.1°/s–19.30°/s	Image Stabilization	Electronic (EIS)
Preset Speed	Pan: 24.32°/s; Tilt: 18.75°/s	Defog	Electronic
Preset	300	Digital Zoom	16×
Power-off Memory	Yes	Image Rotation	180°
Idle Motion	Preset	S/N Ratio	≥55 dB
Intelligence		Audio	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2_Layer2; G.722.1
	alarm classification; linkage tracking (people)	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 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 PFA152-E
Junction Box Pole Mount Bracket

PFM320D 12 VDC 2 A Power Adapter







TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount
wall Would	
1	1
Pole Mount(Vertical)	
PFA121+PFA152-E	1

# Dimensions (mm[inch])



