

DH-SD3E405DB-GNY-A-PV1

4MP 5x 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.
- · 5x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 50 m.
- · Warm light illumination distance up to 30 m.
- · SMD 3.0.
- · Perimeter protection.
- · Face detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out.
- · Built-in Mic and Speaker for Two-way Talk.
- · 12 VDC/PoE power supply.
- · IP66.
- · Sound and light alarm (red and blue lights).















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 6000 V)

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

Technical Specification	1				Intelligence	
Camera					Tripwire; intrusion; crossing fence detection; loiterin detection; abandoned/missing object; fast moving;	
Image Sensor	1/2.8" CMOS				IVS (Perimeter Protection)	parking detection; people gathering; vehicle/humar alarm classification; linkage tracking
Pixel	4 MP					
Max. Resolution	2560 (H) × 1440 (V)				Face Detection	Supports face detection, snapshot, and face enhancement;
ROM	128 MB				race Detection	Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first
RAM	512 MB				Auto Tracking Lite	Yes
Electronic Shutter Speed	1/1 s-1/30,000 s				SMD	Yes
Scanning System	Progressive				Active Deterrence	103
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	50 m (164.04 30 m (98.43	1 ft) (IR) ft) (Warm ligh	t)			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	/Janual; Auto; (Off		Sound Warning	
	2 (IR)				Video	
Illuminator Number	2 (Warm light) 1 (Red light) 1 (Blue light)				Video Compression	H.264H;H.264B;Smart H.265+; H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Lens		2 (2.02.1.8.1.)			Streaming Capability	3 streams
Focal Length	2.7 mm-13.5 mm				Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920; 1080); 1.3M (1280 × 960); 720p(1280 × 720); D1 (70
Max. Aperture	F1.6-F3.0					576); VGA (640 × 480); CIF (352 × 288)
Field of View	H: 94.9°-30.1°; V: 51°-17.1°; D: 112.3°-34.6°				Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @(1–25/3 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 720p @(1–25/30 fps)
Optical Zoom	5×				Bit Rate Control	CBR/VBR
Focus Control	Auto; semi-auto; manual				Video Bit Rate	H.264: 96 kbps–14848 kbps
Close Focus Distance	1.5 m (4.92 f	t)				H.265: 38 kbps–8960 kbps
Iris Control	Fixed	Fixed			Day/Night	Auto (ICR)/Color/B/W
	Detect	Observe	Recognize	Identify	BLC	Yes
	270 m (885.83 ft)	106.6 m (349.74 ft)	54 m (177.17 ft)	27 m (88.58 ft)	WDR	120 dB
	, ,		ecognize, Ident	, ,	HLC	Yes
DORI Distance	standard sys	tem (EN-6267	6-4) for definin leo to distinguis	g the ability	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lar natural light; street lamp
	table do not	reflect intellig	d area. The num ent function di	stances. For	Gain Control	Auto; manual
	_		es, refer to inst oject design too		Noise Reduction	2D NR; 3D NR
PTZ					Motion Detection	Yes
Pan/Tilt Range	Pan: 0° to 35 Tilt: –15° to -				Region of Interest (RoI)	Yes
Manual Control Speed	Pan: 0.1°/s-3	6°/s			Image Stabilization	Electronic (EIS)
·	Tilt: 0.1°/s-25.8°/s				Defog	Electronic
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s				Digital Zoom	16×
Preset	300				Image Rotation	180°
Power-off Memory	Yes				S/N Ratio	≥55 dB
Idle Motion	otion Preset				Audio	
					Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; P

Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPP0E;NTP;RT P;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP;U DP;IGMP;SMB;HTTP;SSL;DHCP;SMTP;Qos;RTSP;ARP		
Interoperability	CGI;SDK;ONVIF (Profile S&G&T);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		
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,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: 4.5 W Max.: 15 W (illuminator + PTZ + speaker + heating glass)		
Environment			
Operating Temperature	-30 °C to +60 °C (−22 °F to +140 °F)		
Operating Humidity	≤95%		
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection		
Structure			
Product Dimensions	142.6 mm × 140 mm × 236.1 mm (5.61" × 5.51" × 9.29")		
Net Weight	1.5 kg (3.31 lb)		
Gross Weight	2.1 kg (4.63 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-SD3E405DB-GNY- A-PV1	4MP 5x TiOC WizSense Network PTZ Camera		
	SD3E405DB-GNY-A-PV1	4MP 5x 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])



