

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					Supports face detection, snapshot, and face	
Camera				Face Detection	enhancement; Supports face cutout: Face, one-inch photo; Continuing strategies include real time continuing	
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) × 1	440 (V)			SMD	Yes
ROM	128 MB				Active Deterrence	
RAM	512 MB				Light Warning	Red and blue light warning Flash duration: 5 s-30 s
Electronic Shutter Speed	1/1 s-1/30,0	1/1 s-1/30,000 s			Light warming	Flash frequency: high, medium, low
Scanning System	Progressive				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
Min. Illumination	Color: 0.005 B/W: 0.0005 0 lux (IR light	lux@F1.6			Video	damente secto pay 1 to 10 times
Illumination Distance	50 m (164.0		t)		Video Compression	H.264H;H.264B;Smart H.265+; H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Illuminator On/Off Control	·	лапиаl; Auto;			Streaming Capability	3 streams
Illuminator Number	2 (IR) 2 (Warm light) 1 (Red light)	2 (IR) 2 (Warm light)			Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p(1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Lens	1 (Blue light)				Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps)
Focal Length	2.7 mm–13.5 mm					Sub stream 2: 720p @(1–25/30 fps)
Max. Aperture	F1.6-F3.0	F1.6-F3.0			Bit Rate Control	CBR/VBR
Field of View	H: 94.9°–30.1°; V: 51°–17.1°;				Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Ontical Zoom		D: 112.3°–34.6°			Day/Night	Auto (ICR)/Color/B/W
Optical Zoom		5×			BLC	Yes
Focus Control		Auto; semi-auto; manual			WDR	120 dB
Close Focus Distance	1.5 m (4.92 f	t)			HLC	Yes
Iris Control	Fixed				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	Detect	Observe 106.6 m	Recognize	Identify	Gain Control	Auto; manual
	270 m (885.83 ft)	(349.74 ft)	54 m (177.17 ft)	27 m (88.58 ft)	Noise Reduction	2D NR; 3D NR
PTZ					Motion Detection	Yes
Pan/Tilt Range	Pan: 0° to 355° Tilt: -15° to +90°				Region of Interest (RoI)	Yes
Manual Control Speed Pan: 0.1°/s-36°/s Tilt: 0.1°/s-25.8°/s				Image Stabilization	Electronic (EIS)	
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/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		
<u> </u>	Tripwire: int	rusion; crossin	g fence detect	ion; loitering	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
IVS (Perimeter Protection)	detection; a	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human			Network	
alarm classification; linkage tracking			Network Port	RJ-45 (10/100 Base-T)		

Wiz Sense D	H-SD3E405DB-GNY-A-PV1
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;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 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	
	PFA121	Junction Box	
	PFA152-E	Pole Mount Bracket	
Accessories (Optional)	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])



