

DH-SD3E205DB-GNY-A-PV1

2MP 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" 2Megapixel CMOS.
- 5x optical zoom.
- · Max. 25/30fps@1080P.
- 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					Supports face detection, snapshot, and face
Camera				Face Detection	enhancement; Supports face cutout: Face, one-inch photo;	
Image Sensor	1/2.8" CMOS					Capturing strategies include real-time capturing and quality first
Pixel	2 MP				Auto Tracking Lite	Yes
Max. Resolution	1920 (H) × 10)80 (V)			SMD	Yes
ROM	128 MB	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 warning	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: 0.05 lux@F1.6 B/W: 0.005 lux@F1.6 0 lux (IR light on)				Video	alaim can be set to play 1 to 10 times
Illumination Distance	50 m (164.04 30 m (98.43	l ft) (IR) ft) (Warm ligh	t)		Video Compression	H.264H;H.264B;Smart H.265+;H.264; H.265;MJPEG(Sub Stream);Smart H.264+
Illuminator On/Off Control		1anual; Auto; (,		Streaming Capability	3 streams
manimater en, en centre	2 (IR)				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Illuminator Number	2 (Warm light) 1 (Red light) 1 (Blue light)				Video Frame Rate	Main stream: 1080p/1.3M/720p @(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)
Lens					Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-13.5 mm			Video Bit Rate	H.264: 64 kbps–8192 kbps H.265: 25 kbps–6400 kbps
Max. Aperture	F1.6-F3.0				Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 99.6°-31.5°; V: 53°-17.8°; D: 118.8°-36.2°				BLC	Yes
Optical Zoom	5×				WDR	120 dB
Focus Control	Auto; semi-a	uto; manual			HLC	Yes
Close Focus Distance	1.5 m (4.92 f	1.5 m (4.92 ft)			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Iris Control	Fixed				Gain Control	Auto; manual
DODI Distance	Detect	Observe	Recognize	Identify	Noise Reduction	2D NR; 3D NR
DORI Distance	186.2 m (610.89 ft)	73.5 m (241.14 ft)	37.2 m (122.05 ft)	18.6 m (61.02 ft)	Motion Detection	Yes
PTZ					Region of Interest (RoI)	Yes
Pan/Tilt Range Pan: 0° to 355° Tilt: -15° to +90°			Image Stabilization	Electronic (EIS)		
Manual Control Speed Pan: 0.1°/s-36°/s			Defog	Electronic		
· IIIt: 0.1/\$=25.8/\$				Digital Zoom	16×	
Preset	Pan: 35.7°/s; Tilt: 27.1°/s				Image Rotation	180°
Power-off Memory					S/N Ratio	≥55 dB
Idle Motion	· ·				Audio	
				Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	
mitemgence	Intelligence				Network	
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				Network Port	RJ-45 (10/100 Base-T)

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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 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
Audio I/O

Power Supply	12 VDC, 2 A ± 10% PoE+ (802.3at)
Power Consumption	Basic: 4.5 W Max.: 15 W (illuminator + PTZ + speaker + heating glass)

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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		
2MP WizSense PTZ Camera	DH-SD3E205DB-GNY- A-PV1	2MP 5x TiOC WizSense Network PTZ Camera		
	SD3E205DB-GNY-A-PV1	2MP 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	/
Pole Mount(Vertical)	
PFA121+PFA152-E	

Dimensions (mm[inch])



