

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 3.0

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				Power-off Memory	Yes
Camera				Idle Motion	Preset; Tour
Image Sensor	1/2.8" CMOS			PTZ Locked	Yes
Pixel	2 MP			Intelligence	
Max. Resolution	1920 (H) × 1080 (V)			IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human
ROM	128 MB				
RAM	512 MB				alarm classification; linkage tracking
Electronic Shutter Speed	1/1 s-1/30,000 s			Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first
Scanning System	Progressive				
Min. Illumination	Color: 0.05 lux@F1.6 B/W: 0.005 lux@F1.6 0 lux (IR light on)			Auto Tracking	Auto tracking Lite
	50 m (164.04 ft) (IR)			SMD	SMD 3.0
Illumination Distance	30 m (98.43 ft) (Warm light)			Active Deterrence	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off 2 (IR) 2 (Warm light)			Light Warning	Red and blue light warning Flash duration: 5 s – 30 s Flash frequency: high, medium, low
Illuminator Number	1 (Red light) 1 (Blue light)		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	
Lens				Video	
Focal Length	2.7 mm-13.5 mm			Video Compression	H.264H;H.264B;Smart H.265+;H.264; H.265;MJPEG(Sub Stream);Smart H.264+
Max. Aperture	F1.6-F3.0			Streaming Capability	3 streams
Field of View	H: 99.6°-31.5°; V: 53°-17.8°; D: 118.8°-36.2°			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
Optical Zoom	5x			Video Frame Rate	Main stream: 1080p/1.3M/720p @(1–25/30 fps) Sub stream 1: D1/CIF/VGA@ (1–25/30 fps)
Focus Control	Auto; semi-auto; manual			Video Frame Rate	Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)
Close Focus Distance	1.5 m (4.92 ft)			Bit Rate Control	CBR/VBR
Iris Control	Fixed			Video Bit Rate	H.264: 64 kbps–8192 kbps H.265: 25 kbps–6400 kbps
DORI Distance	Detect Observe	_	Identify	Day/Night	Auto (ICR)/Color/B/W
	186.2 m 73.5 m (610.89 ft) (241.14 ft	37.2 m (122.05 ft)	18.6 m (61.02 ft)	BLC	Yes
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.			WDR	120 dB
				HLC	Yes
				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
PTZ				Gain Control	Auto; manual
Pan/Tilt Range	Pan: 0° to 355°			Noise Reduction	2D NR; 3D NR
Manual Control Speed	Tilt: -15° to +90° Pan: 0.1°/s-36°/s Tilt: 0.1°/s-25.8°/s			Motion Detection Region of Interest (RoI)	Yes Yes
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s			Image Stabilization	Electronic (EIS)
Preset	300			Defog	Electronic
Tour	8 (up to 32 presets per tour)			Digital Zoom	16×
Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets.			Image Rotation	180°
				S/N Ratio	≥55 dB
				-,	

Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;R'P;802.1x;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;ICMP; 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				
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	1
Pole Mount(Vertical)	
PFA121+PFA152-E	

Dimensions (mm[inch])



