

# DH-SD3E205DB-GNY-A-PV1

2MP 5x TiOC WizSense Network PTZ Camera



Wiz Sense

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.

## Wiz Sense | DH-SD3E205DB-GNY-A-PV1

Technical Specification					Int	Intelligence		
Camera							Tripwire; intrusion; crossing fence detection; loitering	
Image Sensor	1/2.8" CMOS				IVS	IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking	
Pixel	2 MP							
Max. Resolution	1920 (H) × 1080 (V)				Far	Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo;	
ROM	128 MB						Capturing strategies include real-time capturing and quality first	
RAM	512 MB				Au	to Tracking Lite	Yes	
Electronic Shutter Speed	1/1 s-1/30,000 s					1D	Yes	
Scanning System	Progressive					ctive Deterrence		
Min. Illumination	Color: 0.05 lux@F1.6 B/W: 0.005 lux@F1.6 0 lux (IR light on)					ht Warning	Red and blue light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low	
Illumination Distance	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light) Zeam Dria: Manual, Auto: Off				Sou	und 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	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off				Vie	deo		
Illuminator Number	2 (IR) 2 (Warm light) 1 (Red light) 1 (Blue light)					deo Compression	H.264H;H.264B;Smart H.265+;H.264; H.265;MJPEG(Sub Stream);Smart H.264+	
Lens						eaming Capability	3 streams	
Focal Length	2.7 mm–13.5 mm					solution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)	
Max. Aperture	F1.6-F3.0				Vid	deo 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 @(1–25/20 fps)	
Field of View	H: 99.6°–31.5°; V: 53°–17.8°; D: 118.8°–36.2°				Bit	Rate Control	Sub stream 2: 1080p/1.3M/720p @(1-25/30 fps) CBR/VBR	
Optical Zoom	5×					deo Bit Rate	H.264: 64 kbps–8192 kbps H.265: 25 kbps–6400 kbps	
Focus Control	Auto; semi-auto; manual				Da	y/Night	Auto (ICR)/Color/B/W	
Close Focus Distance	1.5 m (4.92 ft)				BLO		Yes	
Iris Control	Fixed				WE	DR	120 dB	
	Detect	Observe	Recognize	Identify	HL	с	Yes	
	186.2 m (610.89 ft)	73.5 m (241.14 ft)	37.2 m (122.05 ft)	18.6 m (61.02 ft)	Wł	hite Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
DORI Distance	*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.					in Control	Auto; manual	
						ise Reduction	2D NR; 3D NR	
						otion Detection	Yes	
PTZ					Re	gion of Interest (RoI)	Yes	
Pan/Tilt Range	Pan: 0° to 355°				Ima	age Stabilization	Electronic (EIS)	
-	Tilt: –15° to +90° Pan: 0.1°/s–36°/s				De	fog	Electronic	
Manual Control Speed	Tilt: 0.1°/s–25.8°/s				Dig	gital Zoom	16×	
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s				Ima	age Rotation	180°	
Preset	300				S/M	N Ratio	≥55 dB	
Power-off Memory	Yes				Au	oibu		
Idle Motion	Preset				Au	dio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	

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#### Network

Network	
Network Port	RJ-45 (10/100 Base-T)
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	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





PFA121

Junction Box

PFM900-E

Integrated

Mount Tester





PFA152-E Pole Mount Bracket

PFM320D 12 VDC 2 A Power Adapter

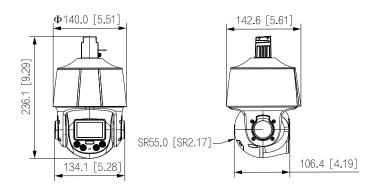


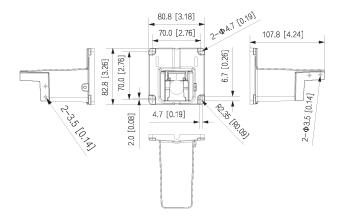
(256<sub>GB</sub>) 256<sub>GB</sub> 242

TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount
/	/
Pole Mount(Vertical)	
PFA121+PFA152-E	

#### Dimensions (mm[inch])





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