

# DH-SD3E405DB-GNY-A-PV1

4MP 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" 4Megapixel CMOS.
- · 5x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 50 m.
- $\cdot$  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-SD3E405DB-GNY-A-PV1

# **Technical Specification**

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) × 1440 (V)			
ROM	128 MB			
RAM	512 MB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)			
Illumination Distance	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light)			
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off			
Illuminator Number	2 (IR) 2 (Warm light) 1 (Red light) 1 (Blue light)			
Lens				
Focal Length	2.7 mm–13.5 mm			
Max. Aperture	F1.6-F3.0			
Field of View	H: 94.9°–30.1°; V: 51°–17.1°; D: 112.3°–34.6°			
Optical Zoom	5×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	1.5 m (4.92 ft)			
Iris Control	Fixed			
DORI Distance	Detect	Observe	Recognize	Identify
	270 m (885.83 ft)	106.6 m (349.74 ft)	54 m (177.17 ft)	27 m (88.58 ft)

112	
Pan/Tilt Range	Pan: 0° to 355° Tilt: –15° to +90°
Manual Control Speed	Pan: 0.1°/s-36°/s Tilt: 0.1°/s-25.8°/s
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s
Preset	300
Power-off Memory	Yes
Idle Motion	Preset
Intelligence	
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

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.	
Auto Tracking Lite	Yes	
SMD	Yes	
Active Deterrence		
Light Warning	Red and blue light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low	
Sound Warning	Offers 21 types of sound alarms, and supports importing custom sound alarms. The sound alarm play times can be set between 1 to 10.	
Video		
Video Compression	H.264H;H.264B;Smart H.265+; H.264;H.265;MJPEG(Sub Stream);Smart H.264+	
Streaming Capability	3 streams	
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)	
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) Sub stream 2: 720p @(1–25/30 fps)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
WDR	120 dB	
HLC	Yes	
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Gain Control	Auto; manual	
Noise Reduction	2D NR; 3D NR	
Motion Detection	Yes	
Region of Interest (RoI)	Yes	
Image Stabilization	Electronic (EIS)	
Defog	Electronic	
Digital Zoom	16×	
Image Rotation	180°	
S/N Ratio	≥55 dB	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	
Network		
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	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	165.5 mm × 140 mm × 271.6 mm (6.52" × 5.51" × 10.69") (L × W × H)
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 DH-SD3E405DB-GNY-4MP 5x TiOC WizSense Network PTZ 4MP A-PV1 Camera WizSense PTZ Camera 4MP 5x TiOC WizSense Network PTZ SD3E405DB-GNY-A-PV1 Camera DC 12 V/2A Power Adapter Accessories PFM900-E Integrated Mount Tester (Optional) TF-P100 MicroSD Memory Card

#### Accessories

#### Optional:



PFM320D 12 VDC 2 A Power

Adapter



PFM900-E

Integrated

Mount Tester



TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount
/	/

## Dimensions (mm[inch])

