

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 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	4 MP				Intelligence	
Max. Resolution	2560 (H) × 1440 (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: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				Auto Tracking	Auto tracking Lite
					SMD	SMD 3.0
Illumination Distance	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light)				Active Deterrence	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off 2 (IR)				Light Warning	Red and blue light warning Flash duration: 5 s = 30 s Flash frequency: high, medium, low
Illuminator Number	2 (Warm light) 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+;
Max. Aperture	F1.6-F3.0				·	H.264;H.265;MJPEG(Sub Stream);Smart H.264+
Field of View	H: 94.9°-30.1°; V: 51°-17.1°; D: 112.3°-34.6°				Streaming Capability Resolution	3 streams 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Optical Zoom	5×				Resolution	576); VGA (640 × 480); CIF (352 × 288)
Focus Control	Auto; semi-auto; manual				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)
Close Focus Distance	1.5 m (4.92 ft)					
Iris Control	Fixed				Bit Rate Control	CBR/VBR
DORI Distance	Detect 270 m	Observe 106.6 m	Recognize 54 m	Identify 27 m	Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
	(885.83 ft)	(349.74 ft)	(177.17 ft)	(88.58 ft)	Day/Night	Auto (ICR)/Color/B/W
			ecognize, Ident 6-4) for definin		BLC	Yes
		-	leo to distinguis d area. The num		WDR	120 dB
	intelligent fu	nction distanc	ent function di ces, refer to inst	tallation and	HLC	Yes
commissioning manual/project design tool. PTZ					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Pan/Tilt Range	Pan: 0° to 355°				Gain Control	Auto; manual
Manual Control Speed	Tilt: -15° to +90° Pan: 0.1°/s-36°/s				Noise Reduction	2D NR; 3D NR
·	Tilt: 0.1°/s-25.8°/s				Motion Detection	Yes
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s				Region of Interest (RoI)	Yes
Preset	300				Image Stabilization	Electronic (EIS)
Tour 8 (up to 32 preset					Defog	Electronic
Auto Patrol	makes the ca	amera link witl	n a target is de n the PTZ to rot patrol based on	ate to the	Digital Zoom	16×
	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)
	≤95%
Operating Humidity	
Operating Humidity Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection

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				
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

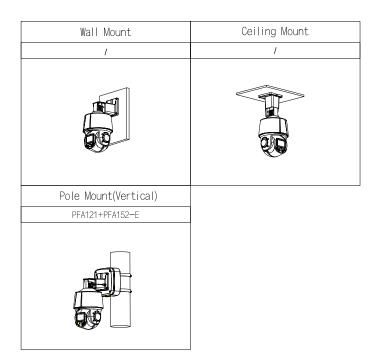
12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

