

DH-SD3C405DB-GNY-A-PV

4MP 5x Smart Dual Light 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

With its powerful optical zoom, and accurate pan and tilt capabilities, the camera series has a wide monitoring range and produces highly detailed visuals. It leverages smart dual light technology to record events in vivid colors and reduce light pollution.

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@4MP.
- IR distance up to 50m.
- · Warm light illumination distance up to 30 m.
- Built-in Mic and Speaker for Two-way Talk.
- · Perimeter protection.
- SMD 3.0.
- 12 VDC/PoE power supply.
- · IP66.















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.

Technical Specification			SMD	Yes
Camera		Active Deterrence		
Image Sensor	1/2.8" CMOS		Light Warning	White light warning Flash duration: 5 s–30 s
Pixel	4 MP			Flash frequency: high, medium, low
Max. Resolution	2560 (H) × 1440 (V)		Sound Warning	Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound
ROM	128 MB		Video	alarm can be set to play 1 to 10 times.
RAM	512 MB			H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
Electronic Shutter Speed	1/1 s-1/30,000 s		Video Compression	(Sub Stream); Smart H.264+
Scanning System	Progressive		Streaming Capability	3 streams
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)		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)
Illumination Distance	50 m (164.04 ft) (IR);30 m (98.43 ft) (Warm light)		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)
Illuminator On/Off Control	Zoom Prio; Manual; Auto;	Off	0.00	Sub stream 2: 720p @(1–25/30 fps)
Illuminator Number	2 (IR); 2 (Warm light)		Bit Rate Control	CBR/VBR
Lens			Video Bit Rate	H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps
Focal Length	2.7 mm-13.5 mm		Day/Night	Auto (ICR)/Color/B/W
Max. Aperture	F1.6–F3.0		BLC	Yes
Field of View	H: 94.9°-30.1°; V: 51°-17.1°; D: 112.3°-34.6°		WDR	120 dB
Optical Zoom	5×		HLC	Yes
Focus Control	Auto; semi-auto; manual		White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Close Focus Distance	1.5 m (4.92 ft)		Gain Control	Auto; manual
Iris Control	Fixed		Noise Reduction	2D NR; 3D NR
	Detect Observe	Recognize Identify	Motion Detection	Yes
	270 m 106.6 m	54 m 27 m	Region of Interest (RoI)	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.		Image Stabilization	Electronic (EIS)
DORI Distance			Defog	Electronic
			Digital Zoom	16×
			Image Rotation	180°
PTZ			S/N Ratio	≥55 dB
Pan/Tilt Range	Pan: 0° to 355°		Audio	
Manual Control Speed	Tilt: -15° to +90° Pan: 0.1°/s-36°/s		Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
·	Tilt: 0.1°/s–25.8°/s		Network	
Preset Speed	Pan: 35.7°/s; Tilt: 27.1°/s		Network Port	RJ-45 (10/100 Base-T)
Preset	300		Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP;
Power-off Memory	Yes			NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
Idle Motion	Preset		Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK; P2P
Intelligence			Streaming Method	Unicast/Multicast
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification		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
Port	
Audio Input	1 channel (built-in mic)
Audio Output	1 channel (built-in speaker)
Alarm Linkage	Capture; recording; send email; preset; audio; warning light
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Power	
Power Supply	12 VDC, 1.5 A ± 25% PoE (802.3af)
Power Consumption	Basic: 3 W Max: 12 W (illuminator + PTZ + speaker)
Environment	

Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP66; TVS 2000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	142.6 mm \times 140.0 mm \times 236.2 mm (5.61" \times 5.51" \times 9.30") (L \times W \times H)
Net Weight	1.1 kg (2.43 lb)
Gross Weight	1.7 kg (3.75 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-SD3C405DB-GNY- A-PV	4MP 5x Smart Dual Light WizSense Network PTZ Camera		
	SD3C405DB-GNY-A-PV	4MP 5x Smart Dual Light WizSense Network PTZ Camera		
Accessories (Optional)	DC 12 V/2A	Power Adapter		
	PFA121	Junction Box		
	PFA152-E	Pole Mount Bracket		
	PFM900-E	Integrated MountTester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA121 Junction Box



PFA152-E Wall Mount Bracket



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])



