

DH-SD1A404DB-GNY

4MP 4x Starlight IR 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, this series of cameras provides an all-in-one solution for large-scale monitoring. It displays images in 4 MP resolution at 25 fps and 30 fps. These cameras offer smooth control and high-grade protection that enable them to meet the requirements of video surveillance in small-sized scenes.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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.

- 1/2.8" 4Megapixel CMOS.
- · 4x optical zoom.
- · Starlight technology.
- Max. 25/30 fps@4MP.
- IR distance up to 20 m.
- Perimeter protection.
- · Face detection.
- SMD 3.0.
- · Built-in Mic.
- IP66; IK08.

















H265+

H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without placing strain on the network. H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

SMD3.0

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.

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.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Technical Specification Camera					Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time
	4/0.011.01.400					capturing and quality first.
Image Sensor Pixel	1/2.8" CMOS 4 MP				People Counting	Supports people counting, calculating the number of people in the area, and queue management. Only people counting supports the report function
Max. Resolution	2560 (H) × 1440 (V)				SMD	Yes
ROM	256 MB				Video	
RAM	512 MB				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Electronic Shutter Speed	1 s-1/30,000 s				Streaming Capability	3 streams
Scanning System	Progressive				Streaming capability	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)				Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illumination Distance	20 m (65.62 ft) (IR)				Video Frame Rate	Main stream: 4M/3M/1080P/1.3M/720P@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 720P@(1-25/30 fps)
Illuminator On/Off Control	Manual; SmartIR; Off					
Illuminator Number	3 (IR light)				Bit Rate Control	CBR/VBR
Lens					Video Bit Rate	H264: 96 Kbps—14,848 Kbps H265: 38 Kbps—8,960 Kbps
Focal Length	2.8 mm-12 mm				Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
Max. Aperture	F1.8-F2.7				BLC	Yes
Field of View	H: 96.9°-31.6°; V: 51.4°-17.8°; D: 116.2°-36.4°				WDR	120 dB
Optical Zoom	4x				HLC	Yes
Focus Control	Auto; semi-a	auto; manual			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Close Focus Distance	0.2 m-0.5 m (0.66 ft- 1.64 ft)				Gain Control	Auto; manual; gain prio
Iris Control	Fixed iris				Noise Reduction	2D NR; 3D NR
	Detect	Observe	Recognize	Identify	Motion Detection	Yes
DORI Distance	240 m (787.40 ft)	94.8 m (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)	Region of Interest (RoI)	Yes
PTZ		, ,			Image Stabilization	Electronic Image Stabilization (EIS)
Pan/Tilt Range	Pan: 0° to 355°;				Defog	Electronic
•	Tilt: 5° to 90° Pan: 0.1°/s-70°/s				Digital Zoom	16×
Manual Control Speed	Tilt: 0.1°/s-30°/s				Image Rotation	180°
Preset Speed	Pan: 0.1°/s-7 Tilt: 0.1°/s-4				S/N Ratio	≥55 dB
Preset	300				Audio	
Tour	8 (up to 32 p	resets per tou	ır)		Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
Power-off Memory	Yes				Network	
Idle Motion	Preset; Tour				Network Port	RJ-45 (10/100 Base-T)
PTZ Protocol DH-SD						FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
Intelligence Tripwire; intrusion; crossing fence detection; loitering					Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
IVS (Perimeter Protection)	detection; a parking dete	bandoned/mis ection; people	ssing object; fa gathering; hur	st moving;	Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK
	classification				User/Host	20 (total bandwidth: 64 M)
					Chaman	AA' CD LIFAD CD) ETD/CETD MAC

Storage

Micro SD card (512 GB); FTP/SFTP; NAS

Wiz Sense | DH-SD1A404DB-GNY

Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 52 and later versions; Safari 10 and later versions					
Management Software	DMSS; DSS Pro					
Mobile Client	iOS; Android					
Certification						
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4					
Port						
Audio Input	1 channel (LINE IN, bare wire)					
Audio Output	1 channel (LINE OUT,bare wire)					
Alarm Linkage	Capture; recording; send email; preset; tour					
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection					
Audio I/O	1/1					
Power						
Power Supply	12 VDC, 2 A ± 10%; PoE (802.3af)					
Power Consumption	Basic: 4 W; Max: 13 W (illuminator on)					
Environment						
Operating Temperature	−30 °C to +60 °C (−22 °F to +140°F)					
Operating Humidity	≤95%					
Protection	TVS 6000 V lightning proof; IP66; IK08; surge protection; voltage transient protection					
Structure						
Product Dimensions	65.4 mm × Φ128.0 mm (2.57" × 5.04")					
Net Weight	0.5 kg (1.10 lb)					
Gross Weight	0.7 kg (1.54 lb)					

Ordering Information						
Туре	Model	Description				
4MP WizSense PTZ Camera	DH-SD1A404DB-GNY	4M 4x Starlight IR WizSense Network PTZ Camera				
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Accessories (Optional)	DC12V/2.0A	Power Adapter				
	PFA107	Mount Adapter				
	PFB305W	Wall Mount Bracket				
	PFA120	Junction Box				
	PFA140	Power Box				
	PFA151	Corner Mount Bracket				
	PFB220C	Ceiling Mount Bracket				
	PFA150	Pole Mount Bracket				

Accessories

Optional:



DC12V/2.0A Power Adapter



PFA107 Mount Adapter



PFB305W Wall Mount Bracket



PFA120 Junction Box



PFA140 Corner Mount Bracket



PFA151 Corner Mount Bracket

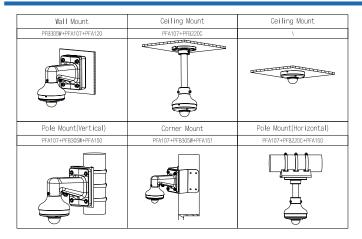


PFB220C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

Wiz Sense | DH-SD1A404DB-GNY



Dimensions (mm[inch])

