

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.

					Supports face detection, snapshot, and face
Technical Specification Camera				Face Detection	enhancement; Supports face cutout: Face, one- inch photo; Capturing strategies include real-time capturing and quality first.
Image Sensor	1/2.8" CMOS			People Counting	Supports counting the number of people that cross the detection line, counting the number of people in an area and queue management. Also, only people counting that cross the detection line supports the
Pixel	4 MP				
Max. Resolution	2560 (H) × 1440 (V)				report function.
ROM	256 MB			SMD	Yes
RAM	512 MB			Video	
Electronic Shutter Speed	1 s-1/30,000 s			Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Scanning System	Progressive			Streaming Capability	3 streams
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)			Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/35
Illumination Distance	20 m (65.62 ft) (IR)	20 m (65.62 ft) (IR)			× 240) Main stream: 4M/3M/1080P/1.3M/720P@(1-25/30
Illuminator On/Off Control	Manual; SmartIR; Off			Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 720P@(1-25/30 fps)
Illuminator Number	3 (IR light)			Bit Rate Control	CBR/VBR
Lens Focal Length	2.8 mm-12 mm			Video Bit Rate	H264: 96 Kbps–14,848 Kbps H265: 38 Kbps–8,960 Kbps
Max. Aperture	F1.8–F2.7			Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
Field of View	H: 96.9°-31.6°; V: 51.4°-17.8°; D: 116.2°-36.4°			BLC	Yes
Optical Zoom	4x			WDR	120 dB
Focus Control	Auto; semi-auto; manual			HLC	Yes
Close Focus Distance	0.2 m-0.5 m (0.66 ft- 1.64 ft)			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lam natural light; street lamp
Iris Control	Fixed iris			Gain Control	Auto; manual; gain prio
	Detect Observe	Recognize	Identify	Noise Reduction	2D NR; 3D NR
DORI Distance	240 m 94.8 m (787.40 ft) (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)	Motion Detection	Yes
PTZ	(787.40 II) (311.02 II)	(137.4611)	(78.74 IL)	Region of Interest (RoI)	Yes
	Pan: 0° to 355°;			Image Stabilization	Electronic Image Stabilization (EIS)
Pan/Tilt Range	Tilt: 5° to 90°			Defog	Electronic
Manual Control Speed	Pan: 0.1°/s-70°/s Tilt: 0.1°/s-30°/s			Digital Zoom	16×
Preset Speed	Pan: 0.1°/s-80°/s Tilt: 0.1°/s-40°/s			Image Rotation	180°
Preset	300				≥55 dB
Tour	8 (up to 32 presets per to	8 (up to 32 presets per tour)			
Power-off Memory	Yes	Yes			PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
Idle Motion	Preset; Tour			Network	
PTZ Protocol	DH-SD			Network Port	RJ-45 (10/100 Base-T)
Intelligence					FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm			ist moving;	Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
	classification			Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK
				User/Host	20 (total bandwidth: 64 M)

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



Corner Mount Bracket

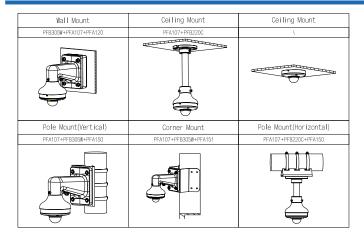


PFB220C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

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Dimensions (mm[inch])

