

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					PTZ Locked	Yes
Camera				Intelligence		
Image Sensor	1/2.8" CMOS				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;
Pixel	4 MP				·	parking detection; people gathering; human alarm classification
Max. Resolution	2560 (H) × 1440 (V) 256 MB				Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time
RAM	512 MB					capturing and quality first. Supports counting the number of people that cross
Electronic Shutter Speed	1 s-1/30,000	0 s			People Counting	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 report function.
Scanning System	Progressive					
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)				SMD Video	Yes
Illumination Distance	20 m (65.62	ft) (IR)			Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
Illuminator On/Off Control	Manual; SmartIR; Off				·	(Sub Stream); Smart H.264+
Illuminator Number	3 (IR light)				Streaming Capability	3 streams 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Lens					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 × 288/352 × 240)
Focal Length	2.8 mm-12 mm				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)
Max. Aperture	F1.8-F2.7 H: 96.9°-31.6°;					
Field of View	V: 51.4°-17.8 D: 116.2°-36				Bit Rate Control	CBR/VBR
Optical Zoom	4x				Video Bit Rate	H264: 96 Kbps-14,848 Kbps H265: 38 Kbps-8,960 Kbps
Focus Control	Auto; semi-auto; manual				Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
Close Focus Distance	0.2 m-0.5 m (0.66 ft- 1.64 ft)				BLC	Yes
Iris Control	Fixed iris	Fixed iris			WDR	120 dB
	Detect 240 m	Observe 94.8 m	Recognize 48 m	Identify 24 m	HLC	Yes
	(787.40 ft)	(311.02 ft)	(157.48 ft) ecognize, Iden	(78.74 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	standard sys	tem (EN-6267	'6-4) for defini deo to distingu	ng the ability	Gain Control	Auto; manual; gain prio
	or objects w	ithin a covere	d area. The nui gent function d	mbers in this	Noise Reduction	2D NR; 3D NR
			ces, refer to ins oject design to		Motion Detection	Yes
PTZ					Region of Interest (RoI)	Yes
Pan/Tilt Range	Pan: 0° to 355°;				Image Stabilization	Electronic Image Stabilization (EIS)
Manual Control Speed	Tilt: 5° to 90'				Defog	Electronic
Marida Control Speed	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				S/N Ratio	≥55 dB
Tour	8 (up to 32 presets per tour)				Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Power-off Memory	Yes				Audio	
Idle Motion	Preset; Tour				Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
PTZ Protocol	DH-SD					

Network					
Network Port	RJ-45 (10/100 Base-T)				
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP				
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK				
User/Host	20 (total bandwidth: 64 M)				
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,built-in mic (mutually exclusive))				
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	65.7 mm × Φ128.0 mm (2.59" × 5.04")				
Net Weight	0.5 kg (1.10 lb)				
Gross Weight	0.7 kg (1.54 lb)				

* The precision of the presets for PTZ cameras might vary depending or	ı 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-SD1A404DB-GNY	4M 4x Starlight IR WizSense Network PTZ Camera			
	SD1A404DB-GNY	4M 4x Starlight IR WizSense Network PTZ Camera			
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

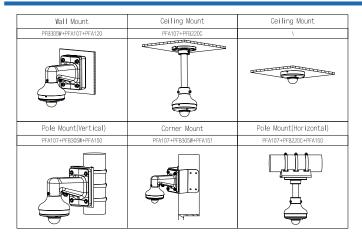


PFB220C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

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Dimensions (mm[inch])

