

DH-SD1A204DB-GNY

2MP 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 2 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" 2Megapixel CMOS.
- 4x optical zoom.
- · Starlight technology.
- Max. 25/30 fps@2MP.
- 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	1				People Counting	Supports people counting, calculating the number of people in the area, and queue management. Only
Camera					reopie Counting	people counting supports the report function
Image Sensor	1/2.8" CMOS				SMD	Yes
Pixel	2 MP				Video	
Max. Resolution	1920 (H) × 1080 (V)				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
ROM	256 MB				Streaming Capability	3 streams
RAM	512 MB				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed	1 s-1/30,000 s					
Scanning System	Progressive				Video Frame Rate	Main stream: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps)
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)				Bit Rate Control	Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps) CBR/VBR
Illumination Distance	20 m (65.62 f	t) (IR)			Video Bit Rate	H264: 96 Kbps-14,848 Kbps
Illuminator On/Off Control	Manual; SmartIR; Off					H265: 38 Kbps–8,960 Kbps ICR: Color; B/W; Auto;
Illuminator Number	3 (IR light)	,			Day/Night	Electronic: Color; B/W; Auto
	5 (BLC	Yes
Lens	2.0 42				WDR	120 dB
Focal Length	2.8 mm-12 mm				HLC	Yes
Max. Aperture	F1.8-F2.7	00.14.50.40.0		50.70	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Field of View		.9°; V: 53.1°–2	.9.1°; D: 121.8°	–59.7°	Gain Control	Auto; manual; gain prio
Optical Zoom	4x				Noise Reduction	2D NR; 3D NR
Focus Control	Auto; semi-au				Motion Detection	Yes
Close Focus Distance	0.2 m-0.5 m	(0.66 ft– 1.64	l ft)		Region of Interest (RoI)	Yes
Iris Control	Fixed iris				Image Stabilization	Electronic Image Stabilization (EIS)
DORI Distance	Detect	Observe	Recognize	Identify	Defog	Electronic
	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	Digital Zoom	16×
PTZ					Image Rotation	180°
Pan/Tilt Range	Pan: 0° to 355 Tilt: 5° to 90°				S/N Ratio	≥55 dB
Manual Control Speed	Pan: 0.1°/s-70				Audio	
Preset Speed	Pan: 0.1°/s-80	0°/s;			Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
Preset	Tilt: 0.1°/s-40	J /S			Network	
Tour	8 (up to 32 pr	esets ner tou	ur)		Network Port	RJ-45 (10/100 Base-T)
Power-off Memory	Yes	esets per too	,		Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
Idle Motion	Preset; Tour					NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
PTZ Protocol	DH-SD				Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK
	100				User/Host	20 (total bandwidth: 64 M)
Intelligence Tripwire; intrusion; crossing fence detection; loitering				ion; loitering	Storage	Micro SD card (512 GB); FTP/SFTP; NAS
IVS (Perimeter Protection)	detection: ahandoned/missing object: fast moving			st moving;	Browser	IE 9 and later versions; Chrome 41 and later versions;
Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time			e, one-	Sionsel.	Firefox 50 and later versions; Safari 10 and later versions	
	capturing and quality first.				Management Software	DMSS; DSS Pro

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Wiz Sense | DH-SD1A204DB-GNY

Jense	711 00 17 120 100 0111				
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)				

0.7 kg (1.54 lb)

Gross Weight

Ordering Information						
Туре	Model	Description				
2MP WizSense PTZ Camera	DH-SD1A204DB-GNY	2M 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

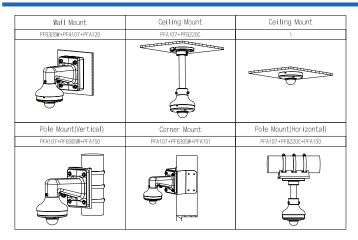


PFB220C Ceiling Mount Bracket



PFA150 Pole Mount Bracket

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Dimensions (mm[inch])

