



DH-SD1A204DB-GNY

2MP 4x Starlight IR WizSense Network PTZ Camera



Wiz Sense

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.

PTZ Locked

Technical Specification					Intelligence	
Camera Image Sensor 1/2.8" CMOS				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm	
•						classification
Pixel Max. Resolution	2 MP 1920 (H) × 1080 (V)				Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one- inch photo; Capturing strategies include real-time capturing and quality first.
ROM	256 MB				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 report function.
RAM	512 MB					
Electronic Shutter Speed	1 s-1/30,000 s					
Scanning System	Progressive				SMD	Yes
0.005 lux@F1.8 (Color, 30 IRE); Min. Illumination				Video Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG	
Illumination Distance	20 m (65.62	ft) (IR)			·	(Sub Stream); Smart H.264+
Illuminator On/Off Control	Manual; Sm	artIR; Off			Streaming Capability	3 streams
Illuminator Number	3 (IR light)				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 : 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens					Video France Date	Main stream: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
Focal Length	2.8 mm-12 mm				Video Frame Rate	
Max. Aperture	F1.8-F2.7				Bit Rate Control	CBR/VBR
Field of View	H: 101.6°-51.9°; V: 53.1°-29.1°; D: 121.8°-59.7°				Video Bit Rate	H264: 96 Kbps–14,848 Kbps H265: 38 Kbps–8,960 Kbps
Optical Zoom	4x				Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
Focus Control	Auto; semi-auto; manual				BLC	Yes
Close Focus Distance	0.2 m-0.5 m (0.66 ft- 1.64 ft)				WDR	120 dB
Iris Control	Fixed iris				HLC	Yes
	Detect	Observe	Recognize	Identify	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp
	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)		natural light; street lamp
DORI Distance			ecognize, Ident	tify) is a	Gain Control	Auto; manual; gain prio
	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.				Noise Reduction	2D NR; 3D NR
					Motion Detection	Yes
					Region of Interest (RoI)	Yes
PTZ					Image Stabilization	Electronic Image Stabilization (EIS)
Pan/Tilt Range	Pan: 0° to 35				Defog	Electronic
Manual Control Speed	Tilt: 5° to 90	70°/s;			Digital Zoom	16×
	Tilt: 0.1°/s-3				Image Rotation	180°
Preset Speed	Pan: 0.1°/s–80°/s; Tilt: 0.1°/s–40°/s				S/N Ratio	≥55 dB
Preset	300				Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Tour	8 (up to 32 presets per tour)				Audio	
Power-off Memory	Yes				Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2;
Idle Motion	Preset; Tour				Network	G.722.1
PTZ Protocol	DH-SD				Network Port	RJ-45 (10/100 Base-T)
	V.				INCLINOINFUIL	10 43 (10) 100 Dasc-1)

Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPOE; 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 50 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 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				
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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Wall Mount	Ceiling Mount	Ceiling Mount	
PFB305W+PFA107+PFA120	PFA107+PFB220C	\	
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)	
PFA107+PFB305W+PFA150	PFA107+PFB305W+PFA151	PFA107+PFB220C+PFA150	

Dimensions (mm[inch])





