

DH-SD1A204DB-GNY-W

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				Intelligence		
Camera			IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;		
Image Sensor	1/2.8" CMOS				ivs (Perimeter Protection)	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
ROM	256 MB	(.,				capturing and quality first. Supports counting the number of people that cross
RAM	512 MB				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.
Electronic Shutter Speed	1 s-1/30,000 s					
Scanning System	Progressive				SMD	Yes
Min. Illumination	0.0005 lux@	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)			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; Sma	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 Focal Length	2.8 mm-12 i	2.8 mm–12 mm F1.8–F2.7			Video Frame Rate	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)
Max. Aperture	F1.8-F2.7				Bit Rate Control	CBR/VBR
Field of View	H: 101.6°-51	H: 101.6°–51.9°; V: 53.1°–29.1°; D: 121.8°–59.7°			Video Bit Rate	H264: 64 Kbps-8,192 Kbps
Optical Zoom	4x	4x			Day/Night	H265: 25 Kbps-6,400 Kbps ICR: Color; B/W; Auto;
Focus Control	Auto; semi-a	Auto; semi-auto; manual				Electronic: Color; B/W; Auto
Close Focus Distance	0.2 m-0.5 m	(0.66 ft- 1.64	l ft)		BLC	Yes
Iris Control	Fixed iris				WDR	120 dB
	Detect	Observe	Recognize	Identify	HLC	Yes
	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
DORI Distance	*DORI (Dete	*DORI (Detect, Observe, Recognize, Identify) is a 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			Gain Control	Auto; manual; gain prio
Jon Distance	of a person v				Noise Reduction	2D NR; 3D NR
	table do not				Motion Detection	Yes
	intelligent function distances, refer to installation and commissioning manual/project design tool.				Region of Interest (RoI)	Yes
PTZ					Image Stabilization	Electronic Image Stabilization (EIS)
Pan/Tilt Range	Pan: 0° to 35 Tilt: 5° to 90				Defog	Electronic
Manual Control Speed		Pan: 0.1°/s-70°/s;			Digital Zoom	16×
Preset Speed	Tilt: 0.1°/s–30°/s Pan: 0.1°/s–80°/s;				Image Rotation	180°
·	Tilt: 0.1°/s-40°/s				S/N Ratio	≥55 dB
Preset		300 8 (up to 22 procests par 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	8 (up to 32 presets per tour) 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	
PTZ Locked	Yes				Network Port	RJ-45 (10/100 Base-T)
r 12 LUCKEU	Yes					

Wiz Sense | DH-SD1A204DB-GNY-W

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Wi-Fi	Yes
Wi-Fi Standard	IEEE802.11b; IEEE802.11g; IEEE802.11n; IEEE802.11ax
Wi-Fi Frequency Range	2.4 GHz
Wi-Fi Transmission Rate	229 Mbps
Max Transmission Power	≤20 dBm@2400–2483.5 MHz
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 CE-RED:EN301489; EN300328; EN IEC 62311
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%
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	nformation				
Туре	Model	Description			
2MP WizSense	DH-SD1A204DB-GNY-W	2M 4x Starlight IR WizSense Network PTZ Camera			
PTZ Camera	SD1A204DB-GNY-W	2M 4x Starlight IR WizSense Network PTZ Camera			
	DC12V/2.0A	Power Adapter			
	PFA107	Mount Adapter			
	PFB305W	Wall Mount Bracket			
Accessories	PFA120	Junction Box			
(Optional)	PFA140	Power Box			
	PFA151	Corner Mount Bracket			
	PFB220C	Ceiling Mount Bracket			
	PFA150	Pole Mount Bracket			

Accessories

Optional:







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

Wiz Sense | DH-SD1A204DB-GNY-W

Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA107+PFA120	PFA107+PFB220C	Λ.
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFA107+PFB305W+PFA150	PFA107+PFB305W+PFA151	PFA107+PFB220C+PFA150

Dimensions (mm[inch])





