



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.

Technical Specification	1					Supports counting the number of people that cross the detection line, counting the number of people in
Camera				People Counting	an area and queue management. Also, only people counting that cross the detection line supports the	
Image Sensor	1/2.8" CMOS				SMD	report function.
Pixel	2 MP				Video	ies
Max. Resolution	1920 (H) × 10	080 (V)				H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	256 MB				Video Compression	(Sub Stream); Smart H.264+
RAM	512 MB				Streaming Capability	3 streams
Electronic Shutter Speed	1 s-1/30,000) s			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive					Main stream: 1080p/1.3M/720p@(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)				Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
Illumination Distance	20 m (65.62 f	ft) (IR)			Bit Rate Control	CBR/VBR
Illuminator On/Off Control	Manual; Sma	rtIR; Off			Video Bit Rate	H264: 96 Kbps–14,848 Kbps H265: 38 Kbps–8,960 Kbps
Illuminator Number	3 (IR light)				Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
Lens					BLC	Yes
Focal Length	2.8 mm-12 mm				WDR	120 dB
Max. Aperture	F1.8-F2.7				HLC	Yes
Field of View	H: 101.6°-51	.9°; V: 53.1°–2	9.1°; D: 121.8°	–59.7°	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Optical Zoom	4x				Gain Control	Auto; manual; gain prio
Focus Control	Auto; semi-a	uto; manual			Noise Reduction	2D NR; 3D NR
Close Focus Distance	0.2 m-0.5 m	(0.66 ft- 1.64	lft)		Motion Detection	Yes
Iris Control	Fixed iris				Region of Interest (RoI)	Yes
DORI Distance	Detect	Observe	Recognize	Identify	Image Stabilization	Electronic Image Stabilization (EIS)
Dom Distance	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	Defog	Electronic
PTZ					Digital Zoom	16×
Pan/Tilt Range	Pan: 0° to 35 Tilt: 5° to 90°				Image Rotation	180°
Manual Control Speed	Pan: 0.1°/s-7 Tilt: 0.1°/s-30	0°/s;			S/N Ratio	≥55 dB
Preset Speed	Pan: 0.1°/s-8 Tilt: 0.1°/s-4	0°/s;			Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Preset	300	0 / 5			Audio	
Tour		resets per tou	ır)		Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
Power-off Memory	Yes				Network	
Idle Motion	Preset; Tour				Network Port	RJ-45 (10/100 Base-T)
PTZ Protocol	DH-SD					FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP;
Intelligence					Network Protocol	NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm			st moving;	Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK	
	classification				User/Host	20 (total bandwidth: 64 M)
Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time				Storage	Micro SD card (512 GB); FTP/SFTP; NAS

inch photo; Capturing strategies include real-time capturing and quality first.

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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)	
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)	

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:







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])





