



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					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					report function.
Pixel	2 MP				SMD	Yes
Max. Resolution	1920 (H) × 1080 (V)				Video	
ROM	256 MB				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (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	ft) (IR)			Bit Rate Control	CBR/VBR
Illuminator On/Off Control	Manual; Sm	artIR; 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°-29.1°; 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	Fixed iris			Region of Interest (RoI)	Yes
20212	Detect	Observe	Recognize	Identify	Image Stabilization	Electronic Image Stabilization (EIS)
DORI 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				Image Rotation	180°
-		Tilt: 5° to 90° Pan: 0.1°/s-70°/s;			S/N Ratio	≥55 dB
Manual Control Speed		Fan: 0.1 /s=/0 /s; Tilt: 0.1°/s=30°/s			Audio	255 45
Preset Speed		Pan: 0.1°/s-80°/s; Tilt: 0.1°/s-40°/s			Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2;
Preset	300					G.722.1
Tour	8 (up to 32 p	resets per tou	ır)		Network Network	DI 45 (40/400 D T)
Power-off Memory	Yes				Network Port	RJ-45 (10/100 Base-T) FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
Idle Motion	Preset; Tour				Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos;
PTZ Protocol	DH-SD					RTSP; ARP
Intelligence				Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; SDK	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification				User/Host	20 (total bandwidth: 64 M)
ivo (reinneter Protection)					Storage	Micro SD card (512 GB); FTP/SFTP; NAS
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.				Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions

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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	65.4 mm × Φ128.0 mm (2.57" × 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:



DC12V/2.0A Power Adapter



PFA107 Mount Adapter



PFB305W Wall Mount Bracket



PFA120 Junction Box



PFA140 Corner Mount Bracket



PFA151 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])





