

DH-SD22204DB-GNY-W

2MP 4x Starlight 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 a wide monitoring range and great detail. It displays images in 2 MP resolution at 25/30 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.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

- · 1/2.8" CMOS.
- · Powerful 4x optical zoom.
- · Max. 25/30fps@1080P.
- · Max 100°/s pan speed.
- · Supports face detection.
- · Support Wi-Fi.
- · IP66, IK10.
- · SMD 3.0.
- · 6000V lightning-proof.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Technical Specification			Face Detection	Supports face detection, face track, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo;	
Camera	1/2 9" CMOS			race Detection	Capturing strategies include real-time capturing and quality first.
Image Sensor Pixel	1/2.8" CMOS 2 MP			SMD	Yes
Max. Resolution	1920 (H) × 1080 (V)			Video	
ROM	1920 (H) × 1080 (V)			Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265;
RAM	256 MB			Streaming Capability	MJPEG(Sub Stream); Smart H.264+ 3 streams
					1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Electronic Shutter Speed	1/1 s-1/30,000 s			Resolution	720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)
Scanning System Min. Illumination	Progressive Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6			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)
Lens	в) vv. 0.0003 Iux@r1.0			Bit Rate Control	CBR/VBR
Focal Length	2.8 mm-12 mm			Video Bit Rate	H.264: 2048 kbps–8192 kbps H.265: 768 kbps–6400 kbps
Max. Aperture	F1.6-F3.0	F1.6-F3.0			Auto (ICR)/Color/B/W
Field of View	H: 99.1°-31.9°; V: 53.4°-18.0°; D: 117.7°-36.6°			BLC	Yes
Optical Zoom	4×			WDR	DWDR
Focus Control	Auto; semi-auto; manual			HLC	Yes
Close Focus Distance	1.5 m (4.92 ft)			White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Iris Control	Fixed			Gain Control	Auto; manual
	Detect Observe	Recognize	Identify	Noise Reduction	2D NR; 3D NR
	165.5 m 65.4 m (542.98 ft) (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	Motion Detection	Yes
DORI Distance		*DORI (Detect, Observe, Recognize, Identify) is a			Yes
DORI Distance	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.			Image Stabilization	Yes
				Defog	Electronic defog
				Digital Zoom	16×
PTZ			Image Rotation	180°	
Pan/Tilt Range	Pan: 0°–355° Tilt: 0°–90°			S/N Ratio	≥ 55 dB
Manual Control Speed	Pan: 0.1°/s-100°/s Tilt: 0.1°/s-60°/s			Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Preset Speed	Pan: 100°/s; Tilt: 60°/s			Network	
Preset	300			Network Port	RJ-45 (10/100 Base-T)
Tour	8 (up to 32 presets per tour)			Wi-Fi	Yes
Pattern	5			Wi-Fi–Wireless Standard	802.11n; IEEE802.11b; 802.11g
Idle Motion	Pattern; Preset; Tour			Wi-Fi–Wireless Frequency Range	2.4GHz
PTZ Protocol	SD Pelco-P/D(Auto recognition)			Wi-Fi–Wireless Transmission Rate	150 Mbps
PTZ Locked	Yes			Max Transmission Power	≤20 dBm@2400-2483.5 MHz
Intelligence	Intelligence				
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification			Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS

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Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK			
Streaming Method	Unicast/Multicast			
User/Host	20 (total bandwidth: 64 M)			
Storage	FTP; Micro SD card (512 GB); NAS			
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions.			
Management Software	DMSS; DSS Pro			
Mobile Client	iOS; Android			
Certification				
Certifications	CE: CE-LVD: IEC 62368-1/ CE-EMC/EN55032/ EN61000-3-3/EN IEC61000-3-2/EN50130-4/EN55035 FCC: 47 CFR FCC Part15, Subpart B, ANSI C63.4:2014			
Port				
Alarm Linkage	Capture; preset; tour; pattern; recordings; alarm digital input; send email			
Alarm Event	Motion/Tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection			
Power				
Power Supply	12 VDC, 1 A ± 10%			
Power Consumption	Basic: 2.7 W Max.: 4.8 W			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Operating Humidity	≤95%			
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Storage Humidity	≤ 95%			
Protection	IP66, IK10			
Structure				
Product Dimensions	89 mm × Φ122 mm (3.50" × Φ4.80")			
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 PTZ Camera	DH-SD22204DB-GNY-W	2MP 4x Starlight WizSense Network PTZ Camera			
	SD22204DB-GNY-W	2MP 4x Starlight WizSense Network PTZ Camera			
Accessories (Optional)	PFA137	Junction Box			
	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFA106	Mount Adapter			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA137 Junction Box



PFB203W Wall Mount Bracket



Pole Mount Bracket



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter

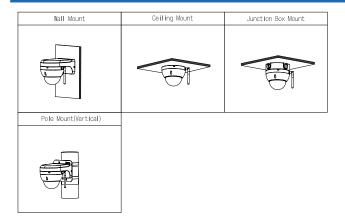


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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Dimensions (mm[inch])

