

DH-SD22204DB-GNY

2MP 4x Starlight WizSense Network PTZ Camera



· 1/2.8" CMOS.

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

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 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.



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.

Wiz Sense | DH-SD22204DB-GNY

Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	256 MB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6			
Lens				
Focal Length	2.8 mm–12 mm			
Max. Aperture	F1.6-F3.0			
Field of View	H: 99.1°–31.9°; V: 53.4°–18.0°; D: 117.7°–36.6°			
Optical Zoom	4×	4×		
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	1.5 m (4.92 ft)			
Iris Control	Fixed			
DORI Distance	Detect	Observe	Recognize	Identify
	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 355° Tilt: 0° to +90°
Manual Control Speed	Pan: 0.1°/s–100°/s Tilt: 0.1°/s–60°/s
Preset Speed	Pan: 100°/s; Tilt: 60°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Idle Motion	Pattern; Preset; Tour
PTZ Protocol	SD Pelco-P/D(Auto recognition)
Intelligence	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Face Detection	Supports face detection, face track, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first.
SMD	Yes

Video H.264H; H.264B; Smart H.265+; H.264; H.265; Video Compression MJPEG(Sub Stream); Smart H.264+ Streaming Capability 3 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × Resolution 720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480) Main stream: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: Video Frame Rate 1080p/1.3M/720p@(1-25/30 fps) CBR/VBR Bit Rate Control H.264: 2048 kbps-8192 kbps Video Bit Rate H.265: 768 kbps-6400 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes WDR DWDR HLC Yes Auto; indoor; outdoor; ATW; manual; sodium lamp; White Balance natural light; street lamp Gain Control Auto; manual 2D NR; 3D NR **Noise Reduction** Motion Detection Yes Region of Interest (Rol) Yes Image Stabilization Yes Defog Electronic defog **Digital Zoom** 16× Image Rotation 180° S/N Ratio ≥ 55 dB Network RJ-45 (10/100 Base-T) Network Port HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; Network Protocol ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS Interoperability ONVIF(Profile S&G&T); P2P; CGI; SDK Streaming Method Unicast/Multicast 20 (total bandwidth: 64 M) User/Host FTP; Micro SD card (512 GB); NAS Storage IE 9 and later versions Chrome 41 and later versions Browser Firefox 50 and later versions iOS 10 and later versions. Management Software DMSS; DSS Pro iOS; Android Mobile Client Certification CE: CE-LVD: IEC 62368-1/ CE-EMC/EN 55032/EN IEC Certifications 61000-3-2/EN55024/EN55035/EN50130-4 FCC: 47 CFR FCC Part15, Subpart B, ANSI C63.4:2014

Wiz Sense | DH-SD22204DB-GNY

Port	
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; 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% POE (802.3af)
Power Consumption	Basic: 2.3 W Max.: 6.1 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	2MP 4x Starlight WizSense Network PTZ Camera	
	SD22204DB-GNY	2MP 4x Starlight WizSense Network PTZ Camera	
Accessories (Optional)	PFA137	Junction Box	
	PFB203W	Wall Mount Bracket	
	PFA152-E	Pole Mount Bracket	
	PFA106	Mount Adapter	
	PFB200C	In ceiling Mount Bracket	
	PFB220C	Ceiling Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:



PFA137

Junction Box

PFA106

Mount Adapter

PFM321D

12 VDC 1A Power

Adapter



PFB203W

Wall Mount

Bracket



PFA152-E Pole Mount Bracket



Mount Bracket



PFB220C Ceiling Mount Bracket





PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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Ceiling Mount	Ceiling Mount	Junction Box Mount
In-ceiling Mount	Pole Mount(Vertical)	Pole Mount(Horizontal)
Wall Mount		



Wiz Sense | DH-SD22204DB-GNY

Dimensions (mm[inch])







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