

# DH-SD22404DB-GNY-W

4MP 4x Starlight 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 a wide monitoring range and great detail. It displays images in 4 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" STARVIS™ CMOS.
- · Powerful 4x optical zoom.
- · Max.25/30fps@4M/3M.
- $\cdot$  Max 100°/s pan speed.
- $\cdot$  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.

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### **Technical Specification**

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) × 1440 (V)			
ROM	128 MB			
RAM	512 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: 90.3°–29.4°; V: 48.5°–16.6°; D: 105.7°–33.6°			
Optical Zoom	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
	240 m (787.40 ft)	94.8 m (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)

### PTZ

Pan/Tilt Range	Pan: 0°–355° Tilt: 0°–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 4M (2560 × 1440); 3M (2304 × 1296@25fps); 1080P Resolution (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CIF(352 × 288); VGA(640 × 480) Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30 fps) Video Frame Rate Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 720p@(1-25/30 fps) Bit Rate Control CBR/VBR H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps – Video Bit Rate 7936Kbps Auto (ICR)/Color/B/W Day/Night BLC Yes WDR DWDR HLC Yes Auto; indoor; outdoor; ATW; manual; sodium lamp; White Balance natural light; street lamp Gain Control Auto: manual Noise Reduction 2D NR; 3D NR **Motion Detection** Yes Region of Interest (Rol) Yes Image Stabilization Yes Electronic defog Defog Digital Zoom 16× Image Rotation 180° S/N Ratio ≥ 55 dB Network RJ-45 (10/100 Base-T) Network Port Wi-Fi Yes Wi-Fi–Wireless Standard 802.11n; IEEE802.11b; 802.11g Wi-Fi–Wireless Frequency 2.4GHz Range Wi-Fi-Wireless Transmission 150 Mbps Rate 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 User/Host 20 (total bandwidth: 64 M) FTP; Micro SD card (512 GB); NAS Storage

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Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions.
Management Software	DSS; DMSS
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)

Ordering Information				
Туре	Model	Description		
4MP PTZ Camera	DH-SD22404DB-GNY-W	4MP 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

PFA106

Mount Adapter

alhua 256<sub>GB</sub> ⊍ 42

TF-P100 MicroSD Memory Card

Wall Mount

PFB203W

Pole Mount(Vertical) PFB203W+PFA152-E





PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester

Ceiling Mount

PFA137

























12 VDC 1A Power



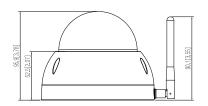
Ceiling Mount

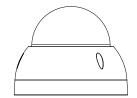


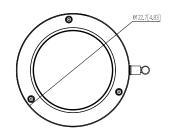


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### Dimensions (mm[inch])







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