

## DH-SD22404DB-GNY

4MP 4x Starlight WizSense Network PTZ Camera



- · 1/2.8" CMOS.
- · Powerful 4x optical zoom.
- · Max.25/30fps@4M/3M.
- · Max 100°/s pan speed.
- · Supports face detection.
- · Support PoE.
- · IP66, IK10.
- · SMD 3.0.
- · 6000V lightning-proof.



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.

#### 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			Supports face detection, face track, snapshot, and face enhancement;
Camera		Face Detection	Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and
Image Sensor	1/2.8" CMOS	0.40	quality first.
Pixel	4 MP	SMD	Yes
Max. Resolution	2560 (H) × 1440 (V)	Video	
ROM	128 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	1/1 s-1/30,000 s	Resolution	4M (2560 × 1440); 3M (2304 × 1296@25fps); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CIF(352 × 288); VGA(640 × 480)
Scanning System	Progressive		
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)
Lens	2.8 mm-12 mm	Bit Rate Control	CBR/VBR
Focal Length	F1.6-F3.0	Video Bit Rate	H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps –
Max. Aperture Field of View	H: 90.3°–29.4°; V: 48.5°–16.6°; D: 105.7°–33.6°		7936Kbps
Optical Zoom	4x	Day/Night	Auto (ICR)/Color/B/W
Focus Control		BLC	Yes
	Auto; semi-auto; manual	WDR	DWDR
Close Focus Distance	1.5 m (4.92 ft)	HLC	Yes  Auto; indoor; outdoor; ATW; manual; sodium lamp;
Iris Control	Fixed	White Balance	natural light; street lamp
	Detect Observe Recognize Identify	Gain Control	Auto; manual
	240 m 94.8 m 48 m 24 m (787.40 ft) (311.02 ft) (157.48 ft) (78.74 ft)	Noise Reduction	2D NR; 3D NR
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability	Motion Detection	Yes
	of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this	Region of Interest (RoI)	Yes
	table do not reflect intelligent function distances. For intelligent function distances, refer to installation and	Image Stabilization	Yes
	commissioning manual/project design tool.	Defog	Electronic defog
PTZ		Digital Zoom	16×
Pan/Tilt Range	Pan: 0°–355° Tilt: 0°–90°	Image Rotation	180°
Manual Control Speed	Pan: 0.1°/s–100°/s Tilt: 0.1°/s–60°/s	S/N Ratio	≥ 55 dB
Preset Speed	Pan: 100°/s; Tilt: 60°/s	Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Preset	300	Network	
Tour	8 (up to 32 presets per tour)	Network Port	RJ-45 (10/100 Base-T)
Pattern	5		HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP;
Idle Motion	Pattern; Preset; Tour	Network Protocol	DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS
PTZ Protocol	SD Pelco-P/D(Auto recognition)	Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
PTZ Locked	Yes	Streaming Method	Unicast/Multicast
Intelligence		User/Host	20 (total bandwidth: 64 M)
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering	Storage	FTP; Micro SD card (512 GB); NAS
	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions

iOS 10 and later versions.

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Management Software	DMSS; DSS Pro			
Mobile Client	iOS; Android			
Certification				
Certifications	CE: CE-LVD: IEC 62368-1/ CE-EMC/EN 55032/EN IEC 61000-3-2/EN55024/EN55035/EN50130-4 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% 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)			

# Protection Structure

Operating Humidity

Storage Temperature

Storage Humidity

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)

-30 °C to +60 °C (−22 °F to +140 °F)

≤ 95%

≤ 95%

IP66, IK10

<sup>\*</sup>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		
4MP PTZ Camera	DH-SD22404DB-GNY	4MP 4x Starlight WizSense Network PTZ Camera		
	SD22404DB-GNY	4MP 4x Starlight WizSense Network PTZ Camera		
	PFA137	Junction Box		
	PFB203W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
	PFA106	Mount Adapter		
Accessories (Optional)	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



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

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

### Dimensions (mm[inch])





