

## DH-SD22404DB-GNY

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" 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.













#### 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
Camera				Face Detection	face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and		
Image Sensor	1/2.8" CMOS					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					Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30
Lens				Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 720p@(1–25/30 fps)		
Focal Length	2.8 mm-12 mr	2.8 mm-12 mm				Bit Rate Control	CBR/VBR
Max. Aperture	F1.6-F3.0	F1.6-F3.0				Video Bit Rate	H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps – 7936Kbps
Field of View	H: 90.3°-29.4°;	H: 90.3°-29.4°; V: 48.5°-16.6°; D: 105.7°-33.6°				Day/Night	Auto (ICR)/Color/B/W
Optical Zoom	4×	4×				BLC	Yes
Focus Control	Auto; semi-auto; manual				WDR	DWDR	
Close Focus Distance	1.5 m (4.92 ft)				HLC	Yes	
Iris Control	Fixed	Fixed					Auto; indoor; outdoor; ATW; manual; sodium lamp;
	Detect	Observe	Recognize	Identify		White Balance	natural light; street lamp
DORI Distance	240 m (787.40 ft)	94.8 m (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)		Gain Control	Auto; manual
	*DORI (Detect, Observe, Recognize, Identify) is a 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.					Noise Reduction	2D NR; 3D NR
						Motion Detection	Yes
						Region of Interest (RoI)	Yes
						Image Stabilization	Yes
PTZ				Defog	Electronic defog		
Pan/Tilt Range	Pan/Tilt Pange Pan: 0°–355°				Digital Zoom	16×	
	Tilt: 0°-90° Pan: 0.1°/s-100	0°/s				Image Rotation	180°
Manual Control Speed Tilt: 0.1°/s-60°/s				S/N Ratio	≥ 55 dB		
Preset Speed	Preset Speed Pan: 100°/s; Tilt: 60°/s				Network		
Preset	300	300				Network Port	RJ-45 (10/100 Base-T)
Tour	8 (up to 32 pre	8 (up to 32 presets per tour)					HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP;
Pattern	5				Network Protocol	ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS	
Idle Motion	Pattern; Preset; Tour				Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK	
PTZ Protocol SD Pelco-P/D(Auto recognition)				Streaming Method	Unicast/Multicast		
Intelligence						User/Host	20 (total bandwidth: 64 M)
	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification					Storage	FTP; Micro SD card (512 GB); NAS
IVS (Perimeter Protection)						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)		

≤ 95%

≤ 95%

IP66, IK10

-30 °C to +60 °C (−22 °F to +140 °F)

<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	DH-SD22404DB-GNY	4MP 4x Starlight WizSense Network PTZ Camera			
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
	0	
In-ceiling Mount	Pole Mount(Vertical)	Pole Mount(Horizontal)
Wall Mount		

### Dimensions (mm[inch])





