

# 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" CMOS.
- · Powerful 4x optical zoom.
- · Max.25/30fps@4M/3M.
- · 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				Video	
Camera				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Image Sensor	1/2.8" CMOS			Streaming Capability	3 streams
Pixel	4 MP			Streaming Capability	4M (2560 × 1440); 3M (2304 × 1296@25fps); 1080P
Max. Resolution	2560 (H) × 1440 (V)			Resolution	(1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CIF(352 × 288); VGA(640 × 480)
ROM	128 MB				Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30
RAM	512 MB			Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps)
Electronic Shutter Speed	1/1 s-1/30,000 s				Sub stream 2: 720p@(1–25/30 fps)
Scanning System	Progressive			Bit Rate Control	CBR/VBR
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6			Video Bit Rate	H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps – 7936Kbps
Lens				Day/Night	Auto (ICR)/Color/B/W
Focal Length	2.8 mm-12 mm			BLC	Yes
Max. Aperture	F1.6-F3.0			WDR	DWDR
Field of View	H: 90.3°-29.4°; V: 48.5°-1	6.6°; D: 105.7°–3	33.6°	HLC	Yes
Optical Zoom	4×			White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Focus Control	Auto; semi-auto; manual			Gain Control	Auto; manual
Close Focus Distance	1.5 m (4.92 ft)			Noise Reduction	2D NR; 3D NR
Iris Control	Fixed			Motion Detection	Yes
	Detect Observe	Recognize	Identify	Region of Interest (RoI)	Yes
DORI Distance	240 m 94.8 m (787.40 ft) (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)	Image Stabilization	Yes
PTZ				Defog	Electronic defog
	Pan: 0°–355°			Digital Zoom	16×
Pan/Tilt Range	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			Network	
Preset	300			Network Port	RJ-45 (10/100 Base-T)
Tour	8 (up to 32 presets per to	ur)		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 recogn	nition)		Wi-Fi–Wireless Transmission	150 Mbps
Intelligence				Rate	CE EIRP:
IVS (Perimeter Protection)	Tripwire; intrusion; crossi detection; abandoned/m parking detection; people alarm classification	ssing object; fas	t moving;	Max Transmission Power  Network Protocol	≤20 dBm@2400–2483.5 MHz  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
	Supports face detection,	face track, snaps	shot, and	Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
Face Detection	face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and			Streaming Method	Unicast/Multicast
	quality first.			User/Host	20 (total bandwidth: 64 M)
SMD	Yes			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)

<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	Ordering Information		
Туре	Model	Description	
4MP PTZ Camera	DH-SD22404DB-GNY-W	4MP 4x Starlight WizSense Network PTZ Camera	
	PFA137	Junction Box	
	PFB203W	Wall Mount Bracket	
	PFA152-E	Pole Mount Bracket	
Accessories (Optional)	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

Wall Mount	Celling Mount	Celling Mount
PFB203W	1	PFA137
Pole Mount(Vertical)		
PFB203W+PFA152-E		

## Dimensions (mm[inch])





