

# 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.
- · 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	Characteristic Council little		
Pixel	4 MP	Streaming Capability	3 streams 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) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)	
Electronic Shutter Speed	1/1 s-1/30,000 s			
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°-16.6°; D: 105.7°-33.6°	HLC	Yes	
Optical Zoom	4x	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 48 m 24 m (787.40 ft) (311.02 ft) (157.48 ft) (78.74 ft)	Image Stabilization	Yes	
PTZ		Defog	Electronic defog	
Pan/Tilt Range	Pan: 0°–355°	Digital Zoom	16×	
rany menange	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	Audio	Audio	
Preset	300	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G723; PCM	
Tour	8 (up to 32 presets per tour)	Network		
Pattern	5	Network Port	RJ-45 (10/100 Base-T)	
Scan	5	Wi-Fi	Yes	
Idle Motion	Pattern; Preset; Scan; Tour	Wi-Fi–Wireless Standard	802.11n; IEEE802.11b; 802.11g	
PTZ Protocol	SD Pelco-P/D(Auto recognition)	Wi-Fi–Wireless Frequency Range	2.4GHz	
Intelligence		Wi-Fi–Wireless Transmission	150 Mbps	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Rate  Network Protocol	TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMPv1/v2c/v3(MIB-2); Qos; RTSP; ARP	
Face Detection	Supports face detection, face track, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo;	Interoperability	CGI; ONVIF (Profile S&G&T)	
	Capturing strategies include real-time capturing and quality first.	Streaming Method	Unicast/Multicast	
SMD	Yes	User/Host	20 (total bandwidth: 64 M)	

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Storage	DMSS; 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	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; audio; send email	
Alarm Event	Motion/Tampering detection; audio 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



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

Wall Mount	Ce <b>ili</b> ng Mount	Ce <b>ili</b> ng Mount
PFB203W	1	PFA137
	0	
Pole Mount(Vertical)		•
PFB203W+PFA152-E		

# Dimensions (mm[inch])





