

DH-SD22404DB-GNY

4MP 4x Starlight WizSense Network PTZ Camera



- · 1/2.8" STARVIS™ 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		Video		
Camera		Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265;	
Image Sensor	1/2.8" CMOS		MJPEG(Sub Stream); Smart H.264+	
Pixel	4 MP	Streaming Capability	3 streams	
Max. Resolution	2560 (H) × 1440 (V)	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)	
ROM	128 MB			
RAM	512 MB	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)	
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: 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	Network	
Preset	300	Network Port	RJ-45 (10/100 Base-T)	
Tour	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; ICMP; SMMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS	
Pattern	5	Network Protocol		
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	Storage	FTP; Micro SD card (512 GB); NAS	
IVS (Perimeter Protection)	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.	
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	Management Software	DSS; DMSS	
SMD	quality first. Yes	Mobile Client	iOS; Android	

Certification

	CE: CE-LVD: IEC 62368-1/ CE-EMC/EN 55032/EN IEC
Certifications	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)
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	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])





