

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					video compression	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: 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	F1.6-F3.0				WDR	DWDR
Field of View	H: 90.3°-29.4°;	H: 90.3°–29.4°; V: 48.5°–16.6°; D: 105.7°–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 (787.40 ft)	94.8 m (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				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	5				Network Port	RJ-45 (10/100 Base-T)
Scan	5	5					TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP;
Idle Motion	Pattern; Preset; Scan; Tour				Network Protocol	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	
PTZ Protocol	SD Pelco-P/D(Auto recognition)						
Intelligence						Interoperability	CGI; ONVIF (Profile S&G&T)
Tripwire; intrusion; crossing fence detection; loitering			Streaming Method	Unicast/Multicast			
IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human					User/Host	20 (total bandwidth: 64 M)
	alarm classification					Storage	DMSS; FTP; Micro SD card (512 GB); NAS
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 quality first.				Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions.	
SMD	Yes				Management Software	DSS; DMSS	

wiz sense	JH-SD22404DB-GNY	
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; 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% 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		

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			
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			

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])





