

DH-SD22204DB-GNY

2MP 4x Starlight WizSense Network PTZ Camera





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 2 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@1080P.
- · 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 face enhancement; Supports face cutout: Face, one-inch photo;		
Camera				Face Detection			
Image Sensor	1/2.8" CMOS					Capturing strategies include real-time capturing and quality first.	
Pixel	2 MP					SMD	Yes
Max. Resolution	1920 (H) × 1080 (V)					Video	
ROM	128 MB	128 MB				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
RAM	256 MB					Streaming Capability	3 streams
Electronic Shutter Speed	1/1 s-1/30,000	1/1 s-1/30,000 s				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Scanning System	Progressive	Progressive					720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)
Min. Illumination		Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6				Video Frame Rate	Main stream: 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)
Lens					Bit Rate Control	CBR/VBR	
Focal Length	2.8 mm-12 mr	2.8 mm-12 mm				Video Bit Rate	H.264: 2048 kbps-8192 kbps H.265: 768 kbps-6400 kbps
Max. Aperture	F1.6-F3.0					Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 99.1°-31.9°;	H: 99.1°–31.9°; V: 53.4°–18.0°; D: 117.7°–36.6°				BLC	Yes
Optical Zoom	4×	4x				WDR	DWDR
Focus Control	Auto; semi-auto; manual					HLC	Yes
Close Focus Distance	1.5 m (4.92 ft)				White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp	
Iris Control	Fixed Detect	Observe	Doogniza	Idontifu		Gain Control	Auto; manual
			Recognize	Identify		Noise Reduction	2D NR; 3D NR
	165.5 m (542.98 ft)	65.4 m (214.57 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)		Motion Detection	Yes
DORI Distance	*DORI (Detect, Obse've, 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					Region of Interest (RoI)	Yes
						Image Stabilization	Yes
						Defog	Electronic defog
	commissioning manual/project design tool.				Digital Zoom	16×	
PTZ					Image Rotation	180°	
Pan/Tilt Range		Pan: 0° to 355° Tilt: 0° to +90°				S/N Ratio	≥ 55 dB
Manual Control Speed	Pan: 0.1°/s-100°/s Tilt: 0.1°/s-60°/s				Network		
Preset Speed	Pan: 100°/s; Til	Pan: 100°/s; Tilt: 60°/s				Network Port	RJ-45 (10/100 Base-T)
Preset	300					Network Protocol	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
Tour	8 (up to 32 pre	esets per tour	·)				
Pattern	5	5				Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
Idle Motion	Pattern; Preset; Tour					Streaming Method	Unicast/Multicast
PTZ Protocol	SD Pelco-P/D(Auto recognition)					User/Host	20 (total bandwidth: 64 M)
Intelligence						Storage	FTP; Micro SD card (512 GB); NAS
IVS (Perimeter Protection) Tripwire; intrusion; crossing fence detection; loitering 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.		

WIZ Selise	J11-3D22204DB-GN1	
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 on SD card; 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)

^{*}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			
2MP PTZ Camera	DH-SD22204DB-GNY	2MP 4x Starlight WizSense Network PTZ Camera			
	SD22204DB-GNY	2MP 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])





