

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
Camera		Face Detection	face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first.
Image Sensor	1/2.8" CMOS		
Pixel	2 MP	SMD	Yes
Max. Resolution	1920 (H) × 1080 (V)	Video	
ROM	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 s	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)
Scanning System	Progressive		Main stream: 1080p/1.3M/720p@(1–25/30 fps) Sub
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Video Frame Rate	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 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°; V: 53.4°–18.0°; D: 117.7°–36.6°	BLC	Yes
Optical Zoom	4×	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	Gain Control	Auto; manual
	Detect Observe Recognize Identify	Noise Reduction	2D NR; 3D NR
	165.5 m 65.4 m 33.1 m 16.6 m (542.98 ft) (214.57 ft) (108.60 ft) (54.46 ft)	Motion Detection	Yes
DORI Distance	*DORI (Detect, Obse've, Recognize, Identify) is a	Region of Interest (RoI)	Yes
	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	Image Stabilization	Yes
	table do not reflect intelligent function distances. For intelligent function distances and	Defog	Electronic defog
	commissioning manual/project design tool.	Digital Zoom	16×
PTZ			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	Privacy Mask	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
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 tour)		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
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
PTZ Locked	Yes	User/Host	20 (total bandwidth: 64 M)
Intelligence	ntelligence		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	Storage	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions.

WIZ Jelise Bit 302220400 Givi			
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
	0	
In-ceiling Mount	Pole Mount(Vertical)	Pole Mount(Horizontal)
Wall Mount		

Dimensions (mm[inch])





