

DH-SD22204DB-GNY-W

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" STARVIS™ CMOS.
- · Powerful 4x optical zoom.
- · Max. 25/30fps@1080P.
- · 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	Streaming Capability	3 streams
Pixel	2 MP	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Max. Resolution	1920 (H) × 1080 (V)		720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480) Main stream: 1080p/1.3M/720p@(1–25/30 fps)
ROM	128 MB	Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)
RAM	256 MB	Bit Rate Control	CBR/VBR
Electronic Shutter Speed	1/1 s-1/30,000 s	Video Bit Rate	H.264: 2048 kbps–8192 kbps H.265: 768 kbps–6400 kbps
Scanning System	Progressive	Day/Night	Auto (ICR)/Color/B/W
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	BLC	Yes
Lens		WDR	DWDR
Focal Length	2.8 mm-12 mm	HLC	Yes
Max. Aperture	F1.6-F3.0	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp;
Field of View	H: 99.1°-31.9°; V: 53.4°-18.0°; D: 117.7°-36.6°	Gain Control	natural light; street lamp Auto; manual
Optical Zoom	4x	Noise Reduction	2D NR; 3D NR
Focus Control	Auto; semi-auto; manual	Motion Detection	Yes
Close Focus Distance	1.5 m (4.92 ft)	Region of Interest (RoI)	Yes
Iris Control	Fixed	Image Stabilization	Yes
	Detect Observe Recognize Identify	Defog	Electronic defog
DORI Distance	165.5 m 65.4 m 33.1 m 16.6 m (542.98 ft) (214.57 ft) (108.60 ft) (54.46 ft)	Digital Zoom	16×
PTZ		Image Rotation	180°
Pan/Tilt Range	Pan: 0°–355°	S/N Ratio	≥ 55 dB
	Tilt: 0°–90° Pan: 0.1°/s–100°/s	Network	
Manual Control Speed	Tilt: 0.1°/s-60°/s	Network Port	RJ-45 (10/100 Base-T)
Preset Speed	Pan: 100°/s; Tilt: 60°/s	Wi-Fi	Yes
Preset	300	Wi-Fi–Wireless Standard	802.11n; IEEE802.11b; 802.11g
Tour	8 (up to 32 presets per tour)	Wi-Fi–Wireless Frequency Range	2.4GHz
Pattern	5	Wi-Fi–Wireless Transmission	150 Mbps
Idle Motion	Pattern; Preset; Tour	Rate	
PTZ Protocol	SD Pelco-P/D(Auto recognition)	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
Intelligence	Triangles in horizon and the street of the s		
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
,	alarm classification	Streaming Method	Unicast/Multicast
Face Detection	Supports face detection, face track, snapshot, and face enhancement;	User/Host	20 (total bandwidth: 64 M)
	Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and	Storage	FTP; Micro SD card (512 GB); NAS
SMD	quality first. Yes	Browser	IE 9 and later versions Chrome 41 and later versions
		DIOWSEI	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; 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%			
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	
2MP PTZ Camera	DH-SD22204DB-GNY-W	2MP 4x Starlight WizSense Network PTZ Camera	
	SD22204DB-GNY-W	2MP 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



Pole Mount Bracket



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter

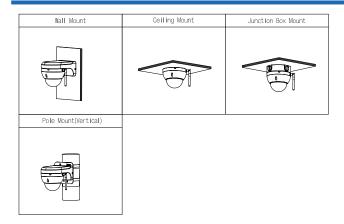


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wiz Sense | DH-SD22204DB-GNY-W



Dimensions (mm[inch])

