

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)	resolution	720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480) 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)
ROM	128 MB	Video Frame Rate	
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	Lens		Yes
Focal Length	2.8 mm-12 mm	WDR 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°		natural light; street lamp
Optical Zoom	4x	Gain Control	Auto; manual
Focus Control	Auto; semi-auto; manual	Noise Reduction	2D NR; 3D NR
Close Focus Distance	1.5 m (4.92 ft)	Motion Detection	Yes
Iris Control	Fixed	Region of Interest (RoI)	Yes
	Detect Observe Recognize Identify	Image Stabilization	Yes
DORI Distance	165.5 m 65.4 m 33.1 m 16.6 m	Defog	Electronic defog
	(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° Tilt: 0°–90°	S/N Ratio	≥ 55 dB
Manual Control Speed	Pan: 0.1°/s-100°/s	Audio	
Preset Speed	Tilt: 0.1°/s-60°/s Pan: 100°/s; Tilt: 60°/s	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G723; PCM
Preset	300	Network	
Tour	8 (up to 32 presets per tour)	Network Port	RJ-45 (10/100 Base-T)
Pattern	5	Wi-Fi	Yes
Scan	5	Wi-Fi–Wireless Standard	802.11n; IEEE802.11b; 802.11g
Idle Motion	Pattern; Preset; Scan; Tour	Wi-Fi–Wireless Frequency Range	2.4GHz
PTZ Protocol	SD Pelco-P/D(Auto recognition)	Wi-Fi–Wireless Transmission Rate	150 Mbps
Intelligence		nate	TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP;
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	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
Face Detection	Supports face detection, face track, snapshot, and	Interoperability	CGI; ONVIF (Profile S&G&T)
	face enhancement; Supports face cutout: Face, one-inch photo;	Streaming Method	Unicast/Multicast
	Capturing strategies include real-time capturing and quality first.	User/Host	20 (total bandwidth: 64 M)
SMD	Yes	Storage	DMSS; FTP; Micro SD card (512 GB); NAS

Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions.			
Management Software	Player; DSS;Smart Player; DMSS; Easy4ip; ConfigTool; NVR; Smart PSS; IVSS			
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; 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%			
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)			

0.7 kg (1.54 lb)

Gross Weight

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		
	PFB220C	In-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



PFB220C In-ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

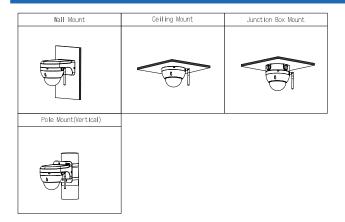


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wiz Sense | DH-SD22204DB-GNY-W



Dimensions (mm[inch])

