

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" STARVIS™ 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			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)
ROM	128 MB		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)
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
Scanning System	Progressive			H.265: 768 kbps-6400 kbps
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6		Day/Night	Auto (ICR)/Color/B/W
Lens			BLC	Yes
Focal Length	2.8 mm-12 mm		WDR	Yes
Max. Aperture	F1.6-F3.0		HLC	Yes
Field of View	H: 99.1°-31.9°; V: 53.4°-18	3.0°; D: 117.7°–36.6°	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Optical Zoom	4×		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° to 355° Tilt: 0° to +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	Pan: 100%; Tilt: 60% 300		Network	
Tour	8 (up to 32 presets per to	ır)	Network Port	RJ-45 (10/100 Base-T)
Pattern	8 (up to 32 presets per tour)			TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP;
Scan	5		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
Idle Motion	Pattern; Preset; Scan; Tou	r		
PTZ Protocol	SD Pelco-P/D(Auto recognition)		Interoperability	CGI; ONVIF (Profile S&G&T)
Intelligence			Streaming Method	Unicast/Multicast
Tripwire; intrusion; crossing fence detection; loitering		User/Host	20 (total bandwidth: 64 M)	
IVS (Perimeter Protection)	detection: abandoned/missing object: fast moving:		Storage	DMSS; FTP; Micro SD card (512 GB); NAS
Face Dahadian	alarm classification 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.
Face Detection			Management Software	Player; DSS; Smart Player; DMSS; Easy4ip; ConfigTool; NVR; Smart PSS; IVSS
SMD	Yes		Mobile Client	iOS; Android

Certification

	CE: CE-LVD: IEC 62368-1/ CE-EMC/EN 55032/EN IEC
Certifications	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; 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

Product Dimensions	89 mm × Φ122 mm (3.50" × Φ4.80")
Net Weight	0.5 kg (1.10 lb)
Gross Weight	0.5 kg (1.10 lb)

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
	PFA137	Junction Box
	PFB203W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
Accessories (Optional)	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



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])





