

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	1	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 × 720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)
Max. Resolution	1920 (H) × 1080 (V)		Main stream: 1080p/1.3M/720p@(1–25/30 fps) Sub
ROM	128 MB	Video Frame Rate	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	Day/Night	H.265: 768 kbps–6400 kbps 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°		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 (542.98 ft) (214.57 ft) (108.60 ft) (54.46 ft)	Defog Digital Zoom	Electronic defog
PTZ	(2.33.14) (2.33.14) (2.33.14)	Image Rotation	180°
	Pan: 0° to 355°	S/N Ratio	≥ 55 dB
Pan/Tilt Range	Tilt: 0° to +90°	Network	233 68
Manual Control Speed	Pan: 0.1°/s–100°/s Tilt: 0.1°/s–60°/s	Network Port	RJ-45 (10/100 Base-T)
Preset Speed	Pan: 100°/s; Tilt: 60°/s		HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP;
Preset	300 Network Protocol		DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP;
Tour	8 (up to 32 presets per tour)		Bonjour; SAMBA; NFS
Pattern	5	Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
Idle Motion	Pattern; Preset; Tour	Streaming Method User/Host	Unicast/Multicast
PTZ Protocol	PTZ Protocol SD Pelco-P/D(Auto recognition)		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.
	Supports face detection, face track, snapshot, and	Management Software	DSS; DMSS
Face Detection	face enhancement; Supports face cutout: Face, one-inch photo; Continuing strategies include and time continuing and	Mobile Client	iOS; Android
	Capturing strategies include real-time capturing and quality first.	Certification	
SMD	Yes	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)	
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)	

^{*}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 Model Type Description 2MP 4x Starlight WizSense Network PTZ DH-SD22204DB-GNY 2MP PTZ Camera 2MP 4x Starlight WizSense Network PTZ SD22204DB-GNY Camera PFA137 Junction Box PFB203W Wall Mount Bracket PFA152-E Pole Mount Bracket Mount Adapter PFA106 Accessories PFB200C In ceiling Mount Bracket (Optional) 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])





