Manuals+ — User Manuals Simplified.

dahua TECHNOLOGY DH-SD22404DB-GNY-W Starlight Wiz Sense Network PTZ Camera Owner's Manual

Contents

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Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chips and deep learning algorithms. It focuses on Ohumansan vehicles with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, si, 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 4 MP resolution at 25/30 fps. These cameras offer smooth control and high-grade protection enabling them to meet the requirements of video surveillance in small-sized scenes.
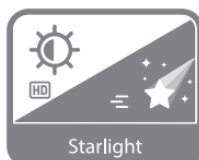
Functions

Starlight Technology
With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in an 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 a deep learning algorithm, the technology supports detecting, tracking, capturing, and selecting the best face image, and outputting outputs the face snapshot. 1/2.8″ CMOS.

- Powerful 4x optical zoom.
- Max.25/30fps@4M/3M.
- 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 an advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes a 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

Camera

- Image Sensor 1/2.8″ CMOS
- Pixel 4 MP
- Max. Resolution 2560 (H) × 1440 (V)
- ROM 128 MB
- RAM 512 MB
- Electronic Shutter Speed 1/1 s–1/30,000 s
- Scanning System Progressive
- Min. Illumination Color: 0.005 lux@F1.6
- B/W: 0.0005 lux@F1.6

Lens

- Focal Length 2.8 mm–12 mm
- Max. Aperture F1.6–F3.0
- Field of View H: 90.3°–29.4°; V: 48.5°–16.6°; D: 105.7°–33.6°
- Optical Zoom 4×
- Focus Control Auto; semi-auto; manual
- Close Focus Distance 1.5 m (4.92 ft)
- Iris Control Fixed
- DORI Distance
- Detect Observe Recognize Identify 240 m (787.40 ft) 94.8 m (311.02 ft) 48 m (157.48 ft) 24 m (78.74 ft)

PTZ

- Pan/Tilt Range Pan: 0°–355°
- Tilt: 0°–90°
- Manual Control Speed Pan: 0.1°/s–100°/s
- Tilt: 0.1°/s–60°/s
- Preset Speed Pan: 100°/s; Tilt: 60°/s
- Preset 300
- Tour 8 (up to 32 presets per tour)

- Pattern 5
- Idle Motion Pattern; Preset; Tour
- PTZ Protocol SD Pelco-P/D(Auto-recognition)

Intelligence

- IVS (Perimeter Protection)
- Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
- Face Detection
- Supports face detection, face tracking, snapshots, and face enhancement;
- Supports face cutout: Face, one-inch photo;
- Capturing strategies include real-time capturing and quality first.
- SMD Yes

Video

- Video Compression H.264H; H.264B; Smart H.265+; H.264; H.265;
- MJPEG(Sub Stream); Smart H.264+
- Streaming Capability 3 streams

Resolution

- 4M (2560 × 1440); 3M (2304 × 1296@25fps); 1080P
- (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720);
- D1(704 × 576); CIF(352 × 288); VGA(640 × 480)
- Video Frame Rate
- Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30 fps)
- Sub stream 1: D1/VGA/CIF@(1–25/30 fps)
- Sub stream 2: 720p@(1–25/30 fps)
- Bit Rate Control CBR/VBR
- Video Bit Rate H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps – 7936Kbps
- Day/Night Auto (ICR)/Color/B/W
- BLC Yes
- WDR DWDR
- HLC Yes
- White Balance Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
- Gain Control Auto Manual
- Noise Reduction 2D NR; 3D NR
- Motion Detection Yes
- Region of Interest (RoI) Yes
- Image Stabilization Yes
- Defog Electronic defog
- Digital Zoom 16×

- Image Rotation 180°
- S/N Ratio ≥ 55 dB

Network

- Network Port RJ-45 (10/100 Base-T)
- Wi-Fi Yes
- Wi-Fi–Wireless Standard 802.11n; IEEE802.11b; 802.11g
- Wi-Fi–Wireless Frequency
- Range 2.4GHz
- Wi-Fi–Wireless Transmission
- Rate 150 Mbps
- Power Transmission CE EIRP:
- ≤20 dBm@2400–2483.5 MHz

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
- Interoperability ONVIF(Profile S&G&T); P2P; CGI; SDK
- Streaming Method Unicast/Multicast
- User/Host 20 (total bandwidth: 64 M)
- Storage 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 DMSS; DSS Pro
- Mobile Client iOS; Android

Certification

- 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; and 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)
- The precision of the presets for PTZ cameras might vary depending on the different series.
- For scenes with high requirements on precision, contact your local sales representative for assistance with selecting the model.

Ordering Information

- Type Model Description 4MP PTZ
- Camera DH-SD22404DB-GNY-W 4MP 4x Starlight WizSense Network PTZ

Camera

- Accessories (Optional)
- PFA137 Junction Box
- PFB203W Wall Mount Bracket
- PFA152-E Pole Mount Bracket
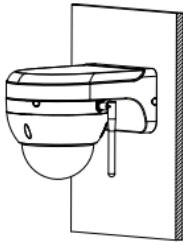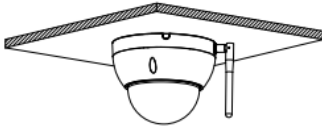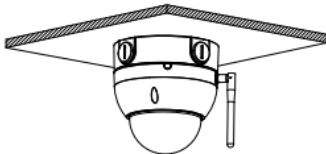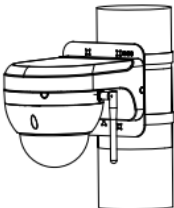- PFA106 Mount Adapter
- PFM321D 12 VDC 1A Power Adapter
- PFM900-E Integrated Mount Tester
- TF-P100 MicroSD Memory Card

Accessories

Optional

PFA137
Junction Box

PFB203W
Wall Mount
Bracket

PFA152-E
Pole Mount
Bracket

PFA106
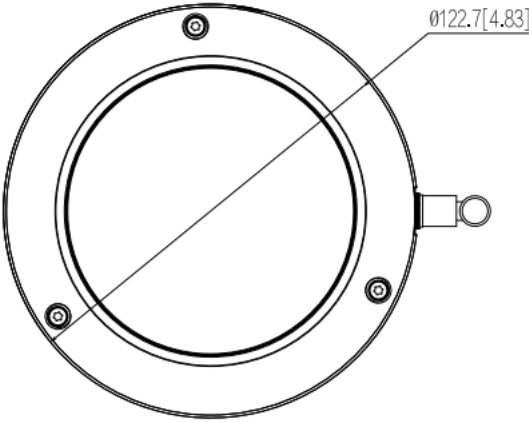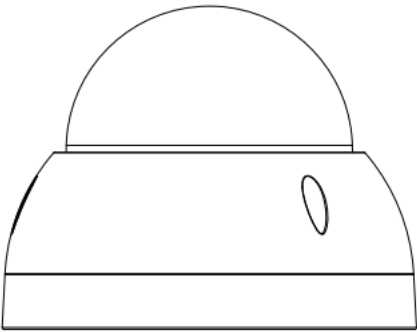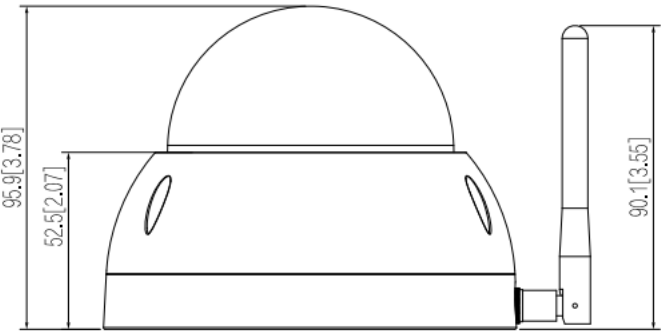Mount Adapter

PFM321D
12 VDC 1A Power
Adapter

PFM900-E
Integrated Mount
Tester

TF-P100
MicroSD Memory
Card

Dimensions (mm[inch])

Wall Mount	Ceiling Mount	Ceiling Mount
PFB203W	\	PFA137

Pole Mount(Vertical)
PFB203W+PFA152-E

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52.5[2.07]
90.1[3.55]

Ø122.7[4.83]

Documents / Resources

dahua TECHNOLOGY DH-SD22404DB-GNY-W Starlight Wiz Sense Network PTZ Camera [pdf] Owner's Manual
DH-SD22404DB-GNY-W Starlight Wiz Sense Network PTZ Camera, DH-SD22404DB-GNY-W, Starlight Wiz Sense Network PTZ Camera, Wiz Sense Network PTZ Camera, Network PTZ Camera, PTZ Camera, Camera

References

- **Dahua Technology - World Leading Video-Centric AIoT Solution & Service Provider**
- **User Manual**