

DH-SD3C205DB-GNY-AW-PV

2MP 5x Smart Dual Light WizSense Wi-Fi 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, the camera series has a wide monitoring range and produces highly detailed visuals. It leverages smart dual light technology to record events in vivid colors and reduce light pollution.

Functions

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

- 1/2.8" 2Megapixel CMOS.
- 5x optical zoom.
- Max. 25/30fps@1080P.
- IR distance up to 50m.
- Warm light illumination distance up to 30 m.
- Built-in Mic and Speaker for Two-way Talk.
- Perimeter protection.
- SMD 3.0.
- Wi-Fi.
- IP66.



Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

SMD 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Technical Specification

Camera

| | |
|----------------------------|--|
| Image Sensor | 1/2.8" CMOS |
| Pixel | 2 MP |
| Max. Resolution | 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 512 MB |
| Electronic Shutter Speed | 1/1 s–1/30,000 s |
| Scanning System | Progressive |
| Min. Illumination | Color: 0.05 lux@F1.6 B/W: 0.005 lux@F1.6 0 lux (IR light on) |
| Illumination Distance | 50 m (164.04 ft) (IR); 30 m (98.43 ft) (Warm light) |
| Illuminator On/Off Control | Zoom Prio; Manual; Auto; Off |
| Illuminator Number | 2 (IR); 2 (Warm light) |

Lens

| | | | | |
|----------------------|---|-----------------------|-----------------------|----------------------|
| Focal Length | 2.7 mm–13.5 mm | | | |
| Max. Aperture | F1.6–F3.0 | | | |
| Field of View | H: 99.6°–31.5°; V: 53°–17.8°; D: 118.8°–36.2° | | | |
| Optical Zoom | 5 × | | | |
| Focus Control | Auto; semi-auto; manual | | | |
| Close Focus Distance | 1.5 m (4.92 ft) | | | |
| Iris Control | Fixed | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 186.2 m (610.89 ft) | 73.5 m (241.14 ft) | 37.2 m (122.05 ft) | 18.6 m (61.02 ft) |
| | *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. | | | |

PTZ

| | |
|----------------------|---|
| Pan/Tilt Range | Pan: 0° to 355° Tilt: –15° to +90° |
| Manual Control Speed | Pan: 0.1°/s–36°/s Tilt: 0.1°/s–25.8°/s |
| Preset Speed | Pan: 35.7°/s; Tilt: 27.1°/s |
| Preset | 300 |
| Power-off Memory | Yes |
| Idle Motion | Preset |

Intelligence

| | |
|----------------------------|--|
| IVS (Perimeter Protection) | Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification |
|----------------------------|--|

| | |
|-----|-----|
| SMD | Yes |
|-----|-----|

Active Deterrence

| | |
|---------------|---|
| Light Warning | White light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low |
| Sound Warning | Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound alarm can be set to play 1 to 10 times. |

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 | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288) |
| Video Frame Rate | Main stream: 1080p/1.3M/720p @ (1–25/30 fps) Sub stream 1: D1/CIF/VGA @ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @ (1–25/30 fps) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 64 kbps–8192 kbps H.265: 25 kbps–6400 kbps |
| Day/Night | Auto (ICR)/Color/B/W |
| BLC | Yes |
| WDR | 120 dB |
| HLC | Yes |
| White Balance | Auto; indoor; outdoor; tracking; 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 | Electronic (EIS) |
| Defog | Electronic |
| Digital Zoom | 16× |
| Image Rotation | 180° |
| S/N Ratio | ≥55 dB |

Audio

| | |
|-------------------|---|
| Audio Compression | G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM |
|-------------------|---|

Network

| | |
|-------------------------|--|
| Network Port | RJ-45 (10/100 Base-T) |
| Wi-Fi | Yes |
| Wi-Fi Standard | IEEE802.11b; IEEE802.11g; IEEE802.11n |
| Wi-Fi Frequency Range | 2.4 GHz |
| Wi-Fi Transmission Rate | 150 Mbps |
| Network Protocol | FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; iCAMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP |

| | |
|---------------------|--|
| Interoperability | ONVIF (Profile S & Profile G & Profile T);CGI; SDK; P2P |
| Streaming Method | Unicast/Multicast |
| User/Host | 20 (total bandwidth: 64 M) |
| Storage | FTP/SFTP; Micro SD card (512 GB); NAS |
| Browser | IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions |
| Management Software | DMSS; DSS Pro |
| Mobile Client | iOS; Android |

Certification

| | |
|----------------|-------------------------------|
| Certifications | CE: EN55032/EN55024/EN50130-4 |
|----------------|-------------------------------|

Port

| | |
|---------------|--|
| Audio Input | 1 channel (built-in mic) |
| Audio Output | 1 channel (built-in speaker) |
| Alarm Linkage | Capture; recording; send email; preset; audio; warning light |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection |

Power

| | |
|-------------------|---|
| Power Supply | 12 VDC, 1.5 A ± 25% |
| Power Consumption | Basic: 3 W Max: 11 W (illuminator + PTZ + speaker) |

Environment

| | |
|-----------------------|--|
| Operating Temperature | -30 °C to +60 °C (-22 °F to +140 °F) |
| Operating Humidity | ≤95% |
| Protection | IP66; TVS 2000 V lightning proof; surge protection; voltage transient protection |

Structure

| | |
|--------------------|--|
| Product Dimensions | 142.6 mm × 140.0 mm × 236.2 mm (5.61" × 5.51" × 9.30") (L × W × H) |
| Net Weight | 1.1 kg (2.43 lb) |
| Gross Weight | 1.7 kg (3.75 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

| Type | Model | Description |
|-------------------------|------------------------|---|
| 2MP WizSense PTZ Camera | DH-SD3C205DB-GNY-AW-PV | 2MP 5x Smart Dual Light WizSense Wi-Fi Network PTZ Camera |
| | SD3C205DB-GNY-AW-PV | 2MP 5x Smart Dual Light WizSense Wi-Fi Network PTZ Camera |
| Accessories (Optional) | DC 12 V/2A | Power Adapter |
| | PFA121 | Junction Box |
| | PFA152-E | Pole Mount Bracket |
| | PFM900-E | Integrated Mount Tester |
| | TF-P100 | MicroSD Memory Card |

Accessories

Optional:



DC 12 V/2A Power Adapter



PFA121 Junction Box



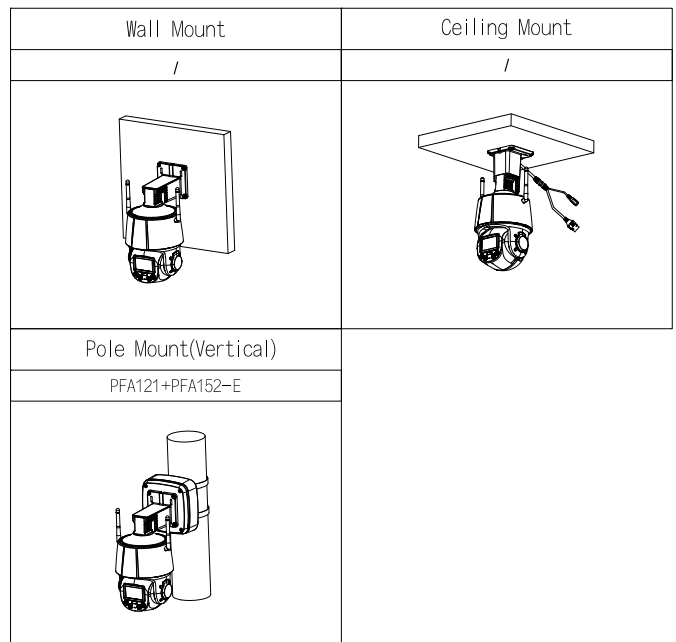
PFA152-E Wall Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100 Corner Mount Bracket



Dimensions (mm[inch])

