

DH-SD3E410DB-GNY-A-PV1

4MP 10x Smart Dual Light 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

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. With horizontal and vertical rotation of TiOC PTZ camera, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

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"4Megapixel CMOS.
- · 10x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 70 m.
- · Warm light illumination distance up to 30 m.
- · SMD 3.0.
- · Perimeter protection.
- · Face detection.
- · Two-way Talk.
- · IP66.
- · Red and blue warning light.



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

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.

Protection (IP66, TVS 2000 V)

IP66, TVS 2000 V lightning proof, surge protection, and voltage transient protection.

| Technical Specification | ı | | Supports face detection, snapshot, and face |
|----------------------------|---|--------------------------|--|
| Camera | | Face Detection | enhancement; Supports face cutout: Face, one-inch photo; |
| Image Sensor | 1/2.8" CMOS | | Capturing strategies include real-time capturing and quality first |
| Pixel | 4 MP | Auto Tracking Lite | Yes |
| Max. Resolution | 2560 (H) × 1440 (V) | SMD | Yes |
| ROM | 128 MB | Active Deterrence | |
| RAM | 512 MB | Light Warning | Red and blue light warning Flash duration: 5 s – 30 s |
| Electronic Shutter Speed | 1/1 s-1/30,000 s | | Flash frequency: high, medium, low |
| Scanning System | Progressive | Sound Warning | Offers 11 types of sound alarms, and supports importing up to 10 custom sound alarms. The sound |
| Min. Illumination | Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 O lux (IR light on) | Video | alarm can be set to play 1 to 10 times |
| Illumination Distance | 70 m (229.66 ft) (IR) 30 m (98.43 ft) (Warm light) | Video Compression | H.265; H.264B; H.264M; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+ |
| Illuminator On/Off Control | Zoom Prio; Manual; Auto; Off | Streaming Capability | 3 streams |
| Illuminator Number | 2 (IR) 2 (Dual-core light) 1 (Red light) 1 (Blue light) | Resolution | 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| Lens | | 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) |
| Focal Length | 4 mm-40 mm | | Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps) |
| Max. Aperture | F1.6–F3.0 H: 50.7°–11.0°; | Bit Rate Control | CBR/VBR |
| Field of View | V: 27.6°–6.3°; D: 57.6°–12.5° | Video Bit Rate | H.264: 96 kbps–14848 kbps H.265: 38 kbps–8960 kbps |
| Optical Zoom | 10× | Day/Night | Auto (ICR)/Color/B/W |
| Focus Control | Auto; semi-auto; manual | BLC | Yes |
| Close Focus Distance | 1m-1.5 m (3.28 ft-4.92 ft) | WDR | 120 dB |
| Iris Control | Fixed | HLC | Yes |
| | Detect Observe Recognize Identify | White Balance | Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp |
| DORI Distance | 800 m 316 m 160 m 80 m (2624.67 ft) (1036.75 ft) (524.93 ft) (262.47 ft) | Gain Control | Auto; manual |
| PTZ | | Noise Reduction | 2D NR; 3D NR |
| Pan/Tilt Range | Pan: 0° to 355° | Motion Detection | Yes |
| | Tilt: -15° to +90° Pan: 0.1°/s-27.31°/s | Region of Interest (RoI) | Yes |
| Manual Control Speed | Tilt: 0.1°/s–19.30°/s | Image Stabilization | Electronic (EIS) |
| Preset Speed | Pan: 24.32°/s; Tilt: 18.75°/s | Defog | Electronic |
| Preset | 300 | Digital Zoom | 16× |
| Power-off Memory | Yes | Image Rotation | 180° |
| Idle Motion | Preset | S/N Ratio | ≥55 dB |
| Intelligence | | Audio | |
| IVS (Perimeter Protection) | Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking (people) | Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2_Layer2; G.722.1 |
| | | Network | |
| | | Network Port | RJ-45 (10/100 Base-T) |
| | | | |

| 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; SMB; NFS | | |
|--|--|--|--|
| 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; NVR | | |
| Mobile Client | iOS; Android | | |
| Certification | | | |
| Certifications | CE: EN55032/EN55024/EN50130-4 | | |
| Port | | | |
| Audio Input | 1 channel (LINE IN, bare wire, built-in mic (mutually exclusive)) | | |
| Audio Output | 1 channel (LINE OUT, bare wire; built-in speaker (mutually exclusive)) | | |
| Alarm Linkage | Capture; recording; send email; preset; alarm digital input; audio; warning light | | |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection | | |
| Alarm I/O | 1/1 | | |
| Audio I/O | 1/1 | | |
| Power | | | |
| Power Supply | 12 VDC, 2 A ± 10% PoE+ (802.3at) | | |
| Power Consumption | Basic: 3 W Max.: 12 W (Warning light + illuminator + PTZ + speaker + heating glass) (12 VDC) Basic: 4 W Max.: 14 W (Warning light + illuminator + PTZ + speaker + heating glass) (PoE) | | |
| 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 × 151.8 mm × 236.2 mm (5.61" × 5.98" × 9.30 ") (L × W × H) | | |
| Net Weight | 1.58 kg (3.48 lb) | | |
| Gross Weight | 2 kg (4.41 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 | | | | |
|-------------------------------|----------------------------|---|--|--|
| Туре | Model | Description | | |
| 4MP WizSense PTZ Camera | DH-SD3E410DB-GNY- A-PV1 | 4MP 10x Smart Dual Light WizSense Network PTZ Camera | | |
| | SD3E410DB-GNY-A-PV1 | 4MP 10x Smart Dual Light WizSense Network PTZ Camera | | |
| Accessories (Optional) | PFA121 | Junction Box | | |
| | PFA152-E | Pole Mount Bracket | | |
| | DC 12 V/2A | Power Adapter | | |
| | PFM900-E | Integrated Mount Tester | | |
| | TF-P100 | MicroSD Memory Card | | |

Accessories

Optional:







PFA121 Junction Box Pole

PFA152-E Pole Mount Bracket

PFM320D 12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

| Wall Mount | Ceiling Mount |
|----------------------|---------------|
| 1 | 1 |
| | |
| Pole Mount(Vertical) | |
| PFA121+PFA152—E | |
| | |

Dimensions (mm[inch])



