



DH-IPC-HFW3449T1-AS-PV

4MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera



Wiz Sense

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.

Series Overview

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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.

One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

* The parameters and datasheets below can only be applied to 3449-PV-S5 series.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Intelligent monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human)
- · Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual Mic; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- · Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.













Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

| Technical Specification | | | | AI SSA | Adopt deep learning algorithms to adjust the parameters | | | |
|--|----------------|--|----------------------|----------------------|---|-------------------|------------------------------------|---|
| Camera | | | ı | Video | of the image to suit the conditions. | | | |
| Image Sensor | | 1/2.7" CMOS | | | | | | H.265; H.264; H.264H; H.264B; MJPEG (only supported |
| Max. Resolution | | 2688 (H) × 1520 (V) | | | | | Video Compression | by sub stream) |
| ROM | | 256 MB | | | | | Smart Codec | Smart H.265+; Smart H.264+ |
| RAM | | 1 GB | | | | | AI Coding | AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%) |
| Scanning System | | Progressive | | | | | | Main stream: 2688 × 1520@ (1 fps-25/30 fps) |
| Electronic Shutter Speed | | Auto/Manual 1/3 s=1/100,000 s | | | | | Video Frame Rate | Sub stream: $704 \times 576@(1 \text{ fps}-25 \text{ fps})/704 \times 480@(1 \text{ fps}-30 \text{ fps})$ Third stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity. |
| Min. Illumination | | 0.003 lux@F1.0 (Color, 30 IRE); 0.0003 lux@F1.0 (B/W, 30 IRE); 0 lux (Illuminator on) | | | | | | |
| S/N Ratio | | >56 dB | | | | | Stream Capability | 3 streams |
| Illumination Distance Illuminator On/Off Control | | Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light) Auto;Manual | | | | | Resolution | 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280×720); D1 (704× 576/704×480); VGA (640 × 480); |
| Illuminator N | • | 2 (IR LED); 2 (Warm light) | | | | | | CIF (352 × 288/352 × 240) |
| aa.co | | Pan: 0°–360° | | | | | Bit Rate Control | VBR; CBR; ABR |
| Angle Adjustment | | Tilt: 0°–90° Rotation: 0°–360° | | | | | Video Bit Rate | H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps |
| Lens | | | | | | | Day/Night | Auto(ICR)/Color/B/W |
| Lens Type | | Fixed-focal | | | | | BLC | Yes |
| Lens Mount | | M12 | | | | | HLC | Yes |
| Focal Length | | 2.8 mm;3.6 mm | | | | | WDR | 120 dB |
| Max. Apertur | re | F1.0 | | | | | Scene Self-adaptation (SSA) | Yes |
| Field of View | | 2.8 mm: H: 101°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 44°; D: 96° | | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Iris Control | | Fixed | | | | | Gain Control | Auto/Manual |
| Close Focus Distance | | 2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft) | | | | | Noise Reduction | 3D NR |
| | Lens | Detect | Observe | Recognize | Identify | | Motion Detection | OFF/ON (4 areas, rectangular) |
| | 2.8 mm | 66.0 m (216.54 ft) | 26.4 m (86.61 ft) | 13.2 m (43.31 ft) | 6.6 m (21.65 ft) | | Region of Interest (RoI) | Yes (4 areas) |
| DORI | 3.6 mm | 78.0 m | 22.2 m | 15.6 m | 7.8 m | | Smart Illumination | Yes |
| Distance | *DORI (Detect. | ' (255.91 ft) (102.36 ft) (51.18 ft) (25.59 ft) Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) | | | | | Defog | Yes |
| for defining objects with function dist | | e ability of a person viewing the video to distinguish persons or a covered area. The numbers in this table do not reflect intelligent nces. For intelligent function distances, refer to installation and | | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower) |
| Intelligence | | manual/project design tool. | | | | | Mirror | Yes |
| Intelligence | | Intrusion, tripwire (the two functions support the | | | | | Privacy Masking | 4 areas |
| IVS (Perimeter Protection) | | classification and accurate detection of vehicle and human) | | | | | LDC | Yes |
| SMD | | SMD 4.0 | | | | | Audio | |
| Smart Sparch | | Work together with Smart NVR to perform refine | | | | | Built-in MIC | Yes, built-in dual Mic |
| Smart Search | | intelligent search, event extraction and merging to event videos | | | | | Built-in Speaker | Yes, built-in speaker |
| AcuPick | | Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets. | | | | Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 | |

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|------------------------|--|--|--|--|
| Alarm | | | | |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception | | | |
| Network | | | | |
| Network Port | RJ-45 (10/100 Base-T) | | | |
| SDK and API | Yes | | | |
| Network Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P | | | |
| Interoperability | ONVIF (Profile S; Profile G; Profile T); CGI | | | |
| User/Host | 20 (Total bandwidth: 64 M) | | | |
| Storage | FTP;SFTP; Micro SD card (support max. 512 GB); NAS | | | |
| Browser | IE: IE11 Chrome Firefox | | | |
| Management Software | Smart PSS Lite; DSS; DMSS | | | |
| Mobile Client | iOS;Android | | | |
| Cyber Security | Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 ce rtification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade | | | |
| Certification | | | | |
| Certifications | CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU | | | |
| Port | | | | |
| Audio Input | 1 channel (RCA port) | | | |
| Audio Output | 1 channel (RCA port) | | | |
| Alarm Input | 1 channel in: wet contact, 5 mA 3–5 VDC | | | |
| Alarm Output | 1 channel out: wet contact, 300 mA 12 VDC | | | |
| Power | | | | |
| Power Supply | 12 VDC/PoE (802.3af) | | | |
| Power Consumption | Basic: 3.7 W (12 VDC); 4.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on); 8.8 W (PoE) | | | |
| Environment | | | | |
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | | |
| Operating Humidity | ≤95% (RH), non-condensing | | | |
| Protection | IP67 | | | |
| Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | | |
| Change at the maidite. | 40E9/ (DUI) | | | |

≤95% (RH), non-condensing

Metal + plastic

Storage Humidity

Structure Casing Material

| Product Dimensions | 288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72"× 3.33") (L × W × H) | | |
|--------------------|---|--|--|
| Net Weight | 1.0 kg (2.20 lb) | | |
| Gross Weight | 1.23 kg (2.71 lb) | | |

| Ordering Information | | | | |
|----------------------|------------------------|---|--|--|
| Туре | Model | Description | | |
| 4MP Camera | DH-IPC-HFW3449T1-AS-PV | 4MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera | | |
| | PFA135 | Junction Box | | |
| | PFA130-E | Water-proof Junction Box | | |
| Accessories | PFA152-E | Pole Mount Bracket | | |
| (Optional) | PFM321D | 12 VDC 1A Power Adapter | | |
| | PFM900-E | Integrated Mount Tester | | |
| | TF-P100 | MicroSD Memory Card | | |

Accessories

Optional:



PFA135

Junction Box





PFA130-E

Water-proof Junction Box







PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester

| Ceiling Mount | Wall Mount | Pole Mount(Vertical) |
|---------------|------------|----------------------|
| | 2 | |

Dimensions (mm[inch])



