

DH-IPC-HFW3449T1-ZAS-PV

4MP Smart Dual Light Active Deterrence Vari-focal Bullet WizSense Network 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.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

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.

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 warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- 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 50 m and warm light distance is 40 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; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- · One-tap arming/disarming through alarm input.













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.

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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

| Technical Specification | | | | | | Smart Codec | Smart H.265+; Smart H.264+ |
|----------------------------|----------------------------|---|----------------------|----------------------|---------------------|------------------------|--|
| Camera | | | | | | Al Coding | AI H.265; AI H.264 |
| Image Sensor | | 1/2.7" CMOS | | | | Video Frame Rate | Main stream: 2688 × 1520@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 |
| Max. Resolution | | 2688 (H) × 1520 (V) | | | | | fps) Third stream:1920 × 1080@ (1–30 fps) |
| ROM | | 128 MB | | | | | *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected |
| RAM | | 512 MB | | | | 6. 6. 1.11. | to the total encoding capacity |
| Scanning System | | Progressive | | | | Stream Capability | 3 streams 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | Resolution | 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| Min. Illumination | | 0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) | | | | Bit Rate Control | CBR/VBR |
| S/N Ratio | | 0 lux (illuminator on) >56 dB | | | | Video Bit Rate | H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps |
| Illumination | Illumination Distance | | .64.04 ft) (IR) | P. 1.0 | | Day/Night | Auto (ICR)/Color/B/W |
| Illuminator (| On/Off Control | Up to 40 m (131.23 ft) (warm light) | | | | BLC | Yes |
| Illuminator On/Off Control | | Auto/Manual | | | | HLC | Yes |
| Illuminator Number | | 2 (IR LED) 2 (warm light) | | | | WDR | 120 dB |
| Angle Adjustment | | Pan: 0°-360° Tilt: 0°-90° | | | | Scene Self-adaptation | Yes |
| Lens | | Rotation: 0°–360° | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| | | Motorized vari-focal | | | | Gain Control | Auto; manual |
| Lens Type | | ф16 | | | | Noise Reduction | 3D NR |
| | Mount Type | | | | | Motion Detection | OFF/ON (4 areas) |
| Focal Length | | 2.7 mm-13.5 mm F1.0 | | | | Region of Interest (Ro | Yes (4 areas) |
| Max. Apertu | Max. Aperture | | 12° 22° | | | Image Stabilization | Electronic Image Stabilization (EIS) |
| Field of View | | Horizontal: 103°-33° Vertical: 54°-18° Diagonal: 124°-38° | | | | Smart Illumination | Yes |
| Iris Type | | Fixed | | | | Defog | Yes |
| Close Focus Distance | | 1.5 m (4.92 ft) | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower) |
| | Lens | Detect | Observe | Recognize | Identify | Mirror | Yes |
| DORI Distance | W | 65.2 m (213.91 ft) | 26.1 m (85.63 ft) | 13.0 m (42.65 ft) | 6.5 m (21.33 ft) | Privacy Masking | 4 areas |
| | Т | 186.6 m (612.20 ft) | 74.6 m | 37.3 m | 18.7 m | Audio | |
| Professio | Professional, intellige | | (244.75 ft) | (122.38 ft) | (61.35 ft) | Built-in Mic | Yes, built-in dual Mic |
| | | Tripwire; intrusion (support the classification and | | | | Built-in speaker | Yes, built-in speaker |
| IVS (Perimet | IVS (Perimeter Protection) | | | e and human) | | Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |
| SMD 4.0 | | Less false alarm, longer detection distance | | | | Alarm | |
| Quick Pick | | With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Work together with Smart NVR to perform refine | | | | Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene |
| Smart Search | | intelligent search, event extraction and merging to event videos | | | | | changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception |
| AI SSA | | Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions. | | | | Network | |
| Video | | or the image to suit the conditions. | | | | Network | RJ-45 (10/100 Base-T) |
| Video | | | | | | SDK and API | Yes |

H.265; H.264; H.264H; H.264B; MJPEG (only supported

by the sub stream)

Video Compression

| Cyber Security | Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade | | | |
|----------------------|---|--|--|--|
| 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 | | | |
| Interoperability | ONVIF (Profile S; Profile G; Profile T); CG | | | |
| User/Host | 20 (Total bandwidth: 72 M) | | | |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); NAS | | | |
| Browser | IE: IE8/9/11 Chrome Firefox | | | |
| Management Software | Smart PSS; DSS; DMSS | | | |
| Mobile Phone | iOS; Android | | | |
| Certification | | | | |
| Certification | CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 | | | |
| Port | | | | |
| Audio Input | 1 channel (RCA port) | | | |
| Audio Output | 1 channel (RCA port) | | | |
| Alarm Input | 1 channel in: wet contact, 5 mA 3 V–5 VDC | | | |
| Alarm Output | 1 channel out: wet contact, 300 mA 12 VDC | | | |
| Power | | | | |
| Power Supply | 12 VDC/PoE (802.3af) | | | |
| Power Consumption | Basic: 3.3 W (12 VDC); 4.4 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.4 W (12 VDC); 8.7 W (PoE) | | | |
| Environment | | | | |
| Operating Conditions | −30 °C to +60 °C (−22 °F to +140 °F)/Less than 95% RH | | | |
| Storage Conditions | -40 °C to +60 °C (-40 °F to +140 °F) | | | |
| Protection Grade | IP67 | | | |
| Structure | | | | |
| Casing | Metal + plastic | | | |
| Dimensions | 288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H) | | | |
| Net Weight | 1.05 kg (2.31 lb) | | | |
| | | | | |

1.35 kg (2.98 lb)

Gross Weight

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

Accessories

Optional:







PFA135 Junction Box

PFA130-E Junction Box

PFA152-E Pole Mount Bracket







PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

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

Dimensions (mm[inch])





