



DH-IPC-HFW2549T-AS-IL

5MP Smart Dual Illumination Fixed-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 2 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

Smart Dual Illuminators

Dahua Smart Dual Illuminators 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.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688×1520 (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 light distance is 60 m and max. warm light is 50 m.
- ROI, SMART 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 functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, 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 MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- · SMD Plus.













Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

| Technical | Specification | on | | | | | | Main stream: 2960 × 1668@(1–20 fps)/2688×1520@ | |
|----------------------------|---------------|--|---|----------------------|----------------------|----------------------------|---------------|---|--|
| Camera | | | | | | | | (1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 | |
| Image Sensor | | 1/2.7" CMOS | | | | Video Fran | ne Rate | fps) *The values above are the max. frame rates of each | |
| Max. Resolution | | 2960 (H) × 1668 (V) | | | | | | stream; for multiple streams, the values will be subjecte to the total encoding capacity. | |
| ROM | | 128 MB | | | | Stream Ca | oability | 2 streams | |
| RAM | | 256 MB | | | | | | 2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × | |
| Scanning System | | Progressive | | | | Resolution | | 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VG. | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | Dit Data Ca | | (640 × 480); CIF (352 × 288/352 × 240) CBR/VBR | |
| Min. Illumination | | | 1.6 (Color, 30 IF -1.6 (B/W, 30 IF ator on) | | | Bit Rate Co Video Bit R | | H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps | |
| S/N Ratio | | >56 dB | , | | | Day/Night | | Auto(ICR)/Color/B/W | |
| Illumination | Distance | 60 m (195.85 ft) (IR); 50 m (164.04 ft) (Warm light) | | | | BLC | | Yes | |
| Illuminator C | n/Off Control | Auto; Manual | | | | HLC | | Yes | |
| Illuminator N | lumber | 2 (IR LED); 2 (| Warm light) | | | WDR | | 120 dB | |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° Tilt: 0°–90° | | | | White Bala | nce | Auto; natural; street lamp; outdoor; manual; regional custom | |
| Lens | | Rotation: 0°–360° | | | | Gain Contr | ol | Auto; Manual | |
| Lens Type | | Fixed facel | | | | Noise Redu | ıction | 3D NR | |
| Lens Mount | | Fixed-focal | | | | Motion De | tection | OFF/ON (4 areas, rectangular) | |
| | | M12 | | | | Region of I | nterest (RoI) | Yes (4 areas) | |
| Focal Length | | 3.6 mm; 6 mm; 8 mm | | | | Smart Illun | nination | Yes | |
| Max. Aperture | | F1.6 | | | | Image Rota | ation | 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) | |
| Field of View | , | 6 mm: H: 57° | 2°; V: 45°; D: 11 ; V: 30°; D: 65° ; V: 24°; D: 48° | 10° | | Mirror | | Yes | |
| Iris Control | | Fixed | | | | Privacy Ma | sking | 4 areas | |
| | | 3.6 mm: 1.7 m (5.58 ft) | | | | Audio | Audio | | |
| Close Focus I | Distance | 6 mm: 3.2 m (10.50 ft) 8 mm: 4.6 m (15.09 ft) | | | | Built-in MI | С | Yes | |
| | Lens | Detect | Observe | Recognize | Identify | Audio Com | pression | G.711a; G.711Mu; G.726; PCM | |
| | 3.6 mm | 85.4 m | 34.2 m | 17.1 m | 8.5 m | Alarm | | | |
| DORI Distance | | (208.18 ft) 124.0 m | (112.20 ft) 49.6 m | (56.10 ft) 24.8 m | (27.89 ft) 12.4 m | | | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception; | |
| | 6 mm | (406.82 ft) | (162.73 ft) | (81.36 ft) | (40.68 ft) | Alarm Ever | nt | | |
| | 8 mm | 150.4 m (493.44 ft) | 60.2 m (197.51 ft) | 30.1 m (98.75 ft) | 15.0 m (49.21 ft) | | | external alarm | |
| Intelligen | ce | | | | | Network | | | |
| | | Intrusion, tri | pwire (the tw | o functions su | pport the | Network P | ort | RJ-45 (10/100 Base-T) | |
| IVS (Perimeter Protection) | | classification and accurate detection of vehicle and human) | | | | SDK and Al | ગ | Yes | |
| Smart Search | | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to | | | | Network P | rotocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P | |
| | | event videos | | | | Interopera | bility | ONVIF (Profile S/Profile T/Profile G); CGI | |
| Video | | | | | | User/Host | | 20 (Total bandwidth: 48 M) | |
| Video Compression | | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) | | | | Storage | | FTP; SFTP; Micro SD card (support max. 256 GB) | |
| Smart Codec | | Smart H.265+; Smart H.264+ | | | | Manageme | ent Software | SmartPSS Lite;DSS;DMSS | |

| Browser | IE; Chrome; Firefox |
|----------------|---|
| 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 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade |
| Certification | |
| Certifications | CE-LVD: EN62368-1 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: 5 mA 3–5 VDC |
| Alarm Output | 1 channel out: 300 mA 12 VDC |
| Power | |
| Power Supply | 12 VDC/PoE (802.3af) |

Environment

Power Consumption

| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | |
|-----------------------|--------------------------------------|--|--|
| Operating Humidity | ≤95% | | |
| Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | |
| Storage Humidity | ≤95% | | |
| Protection | IP67; IK10 (optional) | | |
| Anti-corrosion Level | Low | | |

Basic: 2.3 W (12 VDC); 3 W (PoE)

Max. (H.265+ max. resolution + max. stream+ WDR +

illuminator intensity + IVS): 6.7 W (12 VDC); 7.9 W (PoE)

Structure

| Casing Material | Metal |
|--------------------|--|
| Product Dimensions | 238.5 mm \times 90.7 mm \times 90.7 mm (9.39" \times 3.57" \times 3.57") (L \times W \times H) |
| Net Weight | 0.72 kg (1.59 lb) |
| Gross Weight | 0.97 kg (2.14 lb) |

| Ordering Information | | | | |
|------------------------|-----------------------|---|--|--|
| Туре | Model | Description | | |
| 5MP Camera | DH-IPC-HFW2549T-AS-IL | 5MP Smart Dual Illumination Fixed- focal Bullet WizSense Network Camera | | |
| | PFA130-E | Water-proof Junction Box | | |
| | PFA152-E | Pole Mount Bracket | | |
| Accessories (Optional) | PFM321D | 12 VDC 1 A Power Adapter | | |
| | PFM900-E | Integrated Mount Tester | | |
| | TF-P100 | MicroSD Memory Card | | |

Accessories

Optional







PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket

12 VDC 1 A Power Adapter



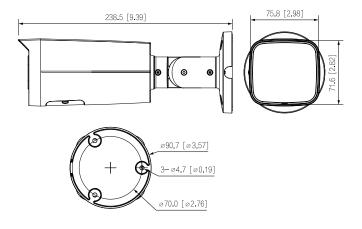


PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

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

Dimensions (mm[inch])



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