

# DH-IPC-HFW2549T-AS-IL

5MP Smart Dual Light 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**

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 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.

#### **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.

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## **Technical Specification**

| lechnical Specification    |        |   |                       |                      |                      |  |
|----------------------------|--------|---|-----------------------|----------------------|----------------------|--|
| Camera                     |        |   |                       |                      |                      |  |
| Image Sensor               |        | 1/2.7" CMOS   |                       |                      |                      |  |
| Max. Resolution            |        | 2960 (H) × 1668 (V)   |                       |                      |                      |  |
| ROM                        |        | 128 MB  |                       |                      |                      |  |
| RAM                        |        | 256 MB  |                       |                      |                      |  |
| Scanning System            |        | Progressive   |                       |                      |                      |  |
| Electronic Shutter Speed   |        | Auto/Manual 1/3 s-1/100,000 s   |                       |                      |                      |  |
| Min. Illumination          |        | 0.007 lux@F1.6 (Color, 30 IRE)<br>0.0007 lux@F1.6 (B/W, 30 IRE)<br>0 lux (Illuminator on)                       |                       |                      |                      |  |
| S/N Ratio                  |        | >56 dB  |                       |                      |                      |  |
| Illumination Distance      |        | up to 60 m (195.85 ft) (IR)<br>up to 50 m (164.04 ft) (Warm light)  |                       |                      |                      |  |
| Illuminator On/Off Control |        | Auto; Manual  |                       |                      |                      |  |
| Illuminator Number         |        | 2 (IR LED); 2 (Warm light)  |                       |                      |                      |  |
| Pan/Tilt/Rotation Range    |        | Pan: 0°–360°<br>Tilt: 0°–90°<br>Rotation: 0°–360°   |                       |                      |                      |  |
| Lens                       |        |   |                       |                      |                      |  |
| Lens Type                  |        | Fixed-focal   |                       |                      |                      |  |
| Lens Mount                 |        | M12   |                       |                      |                      |  |
| Focal Length               |        | 3.6 mm; 6 mm; 8 mm  |                       |                      |                      |  |
| Max. Aperture              |        | F1.6  |                       |                      |                      |  |
| Field of View              |        | 3.6 mm: H: 92°; V: 45°; D: 110°<br>6 mm: H: 57°; V: 30°; D: 65°<br>8 mm: H: 43°; V: 24°; D: 48°                 |                       |                      |                      |  |
| Iris Control               |        | Fixed   |                       |                      |                      |  |
| Close Focus Distance       |        | 3.6 mm: 1.7 m (5.58 ft)<br>6 mm: 3.2 m (10.50 ft)<br>8 mm: 4.6 m (15.09 ft)                                     |                       |                      |                      |  |
|                            | Lens   | Detect  | Observe               | Recognize            | Identify             |  |
| DORI<br>Distance           | 3.6 mm | 85.4 m<br>(208.18 ft)   | 34.2 m<br>(112.20 ft) | 17.1 m<br>(56.10 ft) | 8.5 m<br>(27.89 ft)  |  |
|                            | 6 mm   | 124.0 m<br>(406.82 ft)  | 49.6 m<br>(162.73 ft) | 24.8 m<br>(81.36 ft) | 12.4 m<br>(40.68 ft) |  |
|                            | 8 mm   | 150.4 m<br>(493.44 ft)  | 60.2 m<br>(197.51 ft) | 30.1 m<br>(98.75 ft) | 15.0 m<br>(49.21 ft) |  |
| Intelligend                | ce     |   |                       |                      |                      |  |
| IVS (Perimeter Protection) |        | Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)  |                       |                      |                      |  |
| Smart Search               |        | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos |                       |                      |                      |  |
| Video                      |        |   |                       |                      |                      |  |
| Video Compression          |        | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)  |                       |                      |                      |  |

Smart H.265+; Smart H.264+

Smart Codec

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| Browser               | IE; Chrome; Firefox   |  |  |  |  |
|-----------------------|---|--|--|--|--|
| Mobile Client         | iOS; Android  |  |  |  |  |
| Cyber Security        | Video encryption; firmware encryption; configuration<br>encryption; Digest; WSSE; account lockout; security logs,<br>IP/MAC filtering; generation and importing of X.509<br>certification; syslog; HTTPS; 802.1x; trusted boot; trusted<br>execution; trusted upgrade |  |  |  |  |
| Certification         |   |  |  |  |  |
| Certifications        | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive<br>2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>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)  |  |  |  |  |
| Power Consumption     | Basic: 2.3 W (12 VDC); 3 W (PoE)<br>Max. (H.265+ max. resolution + max. stream+ WDR +<br>illuminator intensity + IVS): 6.7 W (12 VDC); 7.9 W (PoE)  |  |  |  |  |
| Environment           |   |  |  |  |  |
| 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   |  |  |  |  |
| Structure             |   |  |  |  |  |
| Casing Material       | Metal   |  |  |  |  |
| Product Dimensions    | 238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")<br>(L × W × H)   |  |  |  |  |
| Net Weight            | 0.72 kg (1.59 lb)   |  |  |  |  |
| Gross Weight          | 0.97 kg (2.14 lb)   |  |  |  |  |
|                       |   |  |  |  |  |

#### **Ordering Information**

| Туре                      | Model                 | Description  |
|---------------------------|-----------------------|--|
| 5MP<br>Camera             | DH-IPC-HFW2549T-AS-IL | 5MP Smart Dual Light Fixed-focal<br>Bullet WizSense Network Camera |
| Accessories<br>(Optional) | PFA130-E              | Water-proof Junction Box   |
|                           | PFA152-E              | Pole Mount Bracket   |
|                           | 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

**а/ћиа** 256<sub>GB</sub> и 42

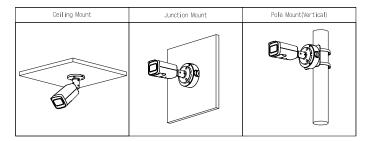
PFM321D 12 VDC 1 A Power Adapter



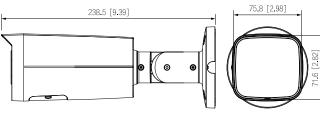
PFM900-E Integrated Mount Tester

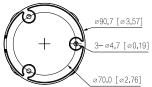
TF-P100





## Dimensions (mm[inch])





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