

DH-IPC-HDW3549H-AS-PV-S3-BLK

5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball 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 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 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 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

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.

- 5 MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 × 1944)@20 fps and supports 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 MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 3.0.
- One press 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 work normal after soaking in 1 m deep water for 30 minutes.

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

Technical Specification

Camera

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|----------------------------|---|
| Image Sensor | 1/2.7" CMOS |
| Max. Resolution | 2592 (H) × 1944 (V) |
| ROM | 128 MB |
| RAM | 512 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| 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 |
| Illumination Distance | 30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light) |
| Illuminator On/Off Control | Auto; manual |
| Illuminator Number | 1 (IR LED) 1 (warm light) |
| Pan/Tilt/Rotation Range | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° |

Lens

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|----------------------|--|-----------------------|------------------------|----------------------|---------------------|
| Lens Type | Fixed-focal | | | | |
| Mount Type | M12 | | | | |
| Focal Length | 2.8 mm; 3.6 mm | | | | |
| Field of View | 2.8 mm: Horizontal: 97°× Vertical: 70°× Diagonal: 128° 3.6 mm: Horizontal: 78°× Vertical: 58°× Diagonal: 102° | | | | |
| Iris Type | Fixed | | | | |
| Close Focus Distance | 2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | 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) |
| | 3.6 mm | 78.0 m (255.91 ft) | 31.2 m (102.36 ft) | 15.6 m (51.18 ft) | 7.8 m (25.59 ft) |

Professional, intelligent

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|----------------------------|--|
| IVS (Perimeter Protection) | Tripwire; intrusion (Support the classification and accurate detection of vehicle and human) |
| SMD 3.0 | Less false alarm, longer detection distance |
| Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos. |

Video

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|-------------------|--|
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) |
| Smart Codec | Smart H.265+; Smart H.264+ |
| AI Coding | AI H.265; AI H.264 |

| | |
|--------------------------|---|
| Video Frame Rate | Main stream: 2592 × 1944@(1 fps–20 fps)/2688 × 1520 @ (1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps) Third stream: 1920 × 1080@(1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Stream Capability | 3 streams |
| Resolution | 5M (2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps |
| Day/Night | Auto (ICR)/Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| Scene Self-adaptation | Yes |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Auto; manual |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas) |
| Region of Interest (RoI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Defog | Yes |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) |
| Mirror | Yes |
| Privacy Masking | 8 areas |

Audio

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|-------------------|------------------------------------|
| Built-in MIC | Yes |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |

Alarm

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|-------------|--|
| 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

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|----------------|---|
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| 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 |

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|---------------------|--|
| Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone |
| 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

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|---------------|--|
| 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

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|--------------|------------------------------|
| Audio Input | 1 channel (RCA port) |
| Audio Output | 1 channel (RCA port) |
| Alarm Input | 1 channel in: 5 mA 3V-5 VDC |
| Alarm Output | 1 channel out: 300 mA 12 VDC |

Power

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|-------------------|---|
| Power Supply | 12 VDC/PoE (802.3af) |
| Power Consumption | Basic: 1.86 W (12 VDC); 4.18 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 6.5 W (12 VDC) 8.8 W (PoE) |

Environment

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|----------------------|---|
| Operating Conditions | -40 °C to +60 °C (-40 °F to +140 °F)/Less than 95% RH |
| Storage Conditions | -40 °C to +60 °C (-40 °F to +140 °F) |
| Protection Grade | IP67 |

Structure

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|--------------|-------------------------------------|
| Casing | Metal |
| Dimensions | 110.9 mm × Φ122.0 mm (4.4" × Φ4.8") |
| Net Weight | 745 g (163.1 lb) |
| Gross Weight | 915 g (200.6 lb) |

Ordering Information

| Type | Model | Description |
|------------------------|------------------------------|--|
| 5MP Camera | DH-IPC-HDW3549H-AS-PV-S3-BLK | 5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera |
| | IPC-HDW3549H-AS-PV-S3-BLK | 5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera |
| Accessories (Optional) | PFA137 | Junction Box |
| | PFB205W | Wall Mount Bracket |
| | PFA106+PFB220C | Ceiling Mount Bracket |
| | PFA106+PFB220C | Pole Mount Bracket |
| | PFM321D | 12 VDC 1A Power Adapter |
| | PFM900-E | Integrated Mount Tester |
| TF-P100 | TLC SD Card | |

Accessories

Optional:



PFA137
Junction Box



PFB205W
Wall Mount Bracket



PFA106+PFB220C
Ceiling Mount Bracket



PFB205W+PFA152-E
Pole Mount Bracket



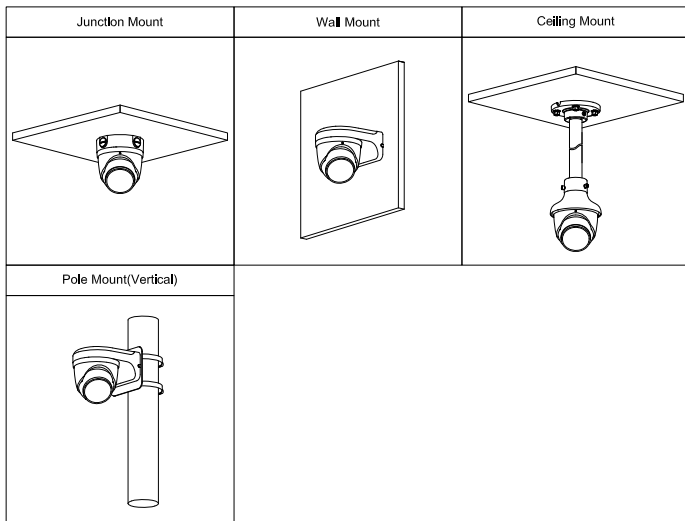
PFM321D
12 VDC 1A Power Adapter



PFM900-E
Integrated Mount Tester



TF-P100
TLC SD Card



Dimensions (mm[inch])

