

DH-IPC-HDW3449TM-AS-NI

4MP Full-color Fixed-focal Eyeball WizSense Network Camera



WizSense

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.

- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @ 30 fps
- H.265 codec, high compression rate, low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67 protection
- SMD Plus



Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

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.

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.

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.

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) are largely reduced.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

| | |
|--------------------------|--|
| Image Sensor | 1/2.7"4Megapixel progressive CMOS |
| Max. Resolution | 2688 (H) × 1520 (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 |
| S/N Ratio | > 56 dB |
| Pan/Tilt/Rotation Range | Horizontal: 0°–360°; vertical: 0°–78°; rotation: 0°–360° |

Lens

| | | | | | |
|----------------------|--|-------------------|-------------------|------------------|-----------------|
| Lens Type | Fixed-focal | | | | |
| Mount Type | M12 | | | | |
| Focal Length | 2.8 mm; 3.6 mm | | | | |
| Max. Aperture | F1.0 | | | | |
| Field of View | 2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95° | | | | |
| Iris Type | Fixed | | | | |
| Close Focus Distance | 2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft) | | | | |
| | Lens | Detect | Observe | Recognize | Identify |
| DORI Distance | 2.8mm | 56.0 m (183.7 ft) | 22.4 m (73.5 ft) | 11.2 m (36.7 ft) | 5.6 m (18.4 ft) |
| | 3.6mm | 80.0 m (262.5 ft) | 32.0 m (105.0 ft) | 16.0 m (52.5 ft) | 8.0 m (26.3 ft) |

Professional, Intelligent

| | |
|----------------------|---|
| Perimeter Protection | Tripwire, intrusion (Recognition of vehicle and people) |
| 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+ |
| Video Frame Rate | Main stream (2688 × 1520@ 1–25/30 fps) sub stream (704 × 576@ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720@ 1–25/30 fps) |
| Stream Capability | 3 streams |
| Resolution | 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR; VBR |
| Video Bit Rate | H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps |
| Day/Night | Color/B/W |
| BLC | Yes |

| | |
|--------------------------|--|
| WDR | 120 dB |
| White Balance | Auto/natural/street lamp/outdoor/manual/regional custom |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest (RoI) | Yes (4 areas) |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.) |
| Mirror | Yes |
| Privacy Masking | 4 areas |

Audio

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|-------------------|-----------------------|
| Audio Compression | G.711a; G.711Mu; G726 |
|-------------------|-----------------------|

Alarm

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|-------------|---|
| Alarm Event | No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD |
|-------------|---|

Network

| | |
|-----------------------------|---|
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; IGMP; IGMP; NFS; PPPoE; SNMP |
| 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 |
| Interoperability | ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec |
| Scene self-adaptation (SSA) | Yes |
| User/Host | 20 (Total bandwidth: 64M.) |
| Edge Storage | FTP; SFTP; Micro SD Card (support max. 256 G); NAS |
| Browser | IE: IE8; IE9; IE11 Chrome Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Phone | IOS; Android |

Certification

| | |
|----------------|--|
| Certifications | CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |
|----------------|--|

Power

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|-------------------|------------|
| Power Supply | 12V DC/PoE |
| Power Consumption | < 4.5W |

Environment

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

Structure

| | |
|--------------|---|
| Casing | Inner core: Metal Cover: Metal Decoration ring: Plastic |
| Dimensions | 99.1 mm × Φ121.9 mm (3.9" × Φ4.8") |
| Net Weight | 480 g (1.05 lb) |
| Gross Weight | 660 g (1.45 lb) |

Ordering Information

| Type | Part Number | Description |
|------------------------|-------------------------|--|
| 4MP Camera | DH-IPC-HDW3449TMP-AS-NI | 4MP Full-color Fixed-focal Eyeball WizSense Network Camera, PAL |
| | DH-IPC-HDW3449TMN-AS-NI | 4MP Full-color Fixed-focal Eyeball WizSense Network Camera, NTSC |
| Accessories (optional) | PFA130-E | Junction Box |
| | PFB203W | Wall mount |
| | PFA152-E | Pole mount |
| | PFM321D | DC12V1A Power adapter |
| | LR1002-1ET/1EC | Single-port long reach ethernet over coax extender |
| | PFM900-E | Integrated mount tester |
| | PFM114 | TLC SD card |

Accessories

Optional:



PFA130-E
Junction Box



PFB203W
Wall Mount



PFA152-E
Pole Mount



PFM321D
DC12V1A Power
Adapter



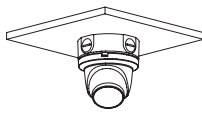
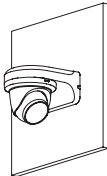

LR1002-1ET/1EC
Single-port long
reach ethernet over
coax extender



PFM900-E
Integrated Mount
tester



PFM114
TLC SD card

| Junction Mount | Wall Mount | Pole Mount |
|--|--|--|
| PFA130-E | PFB203W | PFA152-E+PFA203W |
|  |  |  |

Dimensions (mm[inch])

