



DH-IPC-HDW5541TM-ASE

5MP IR Fixed-focal Eyeball WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

- 5MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5MP (2592 \times 1944)@20 fps , and supports 4MP (2688 \times 1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, 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, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- · 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, and voltage detection.
- · Supports max. 256 G Micro SD card, built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- ePoE: IP67 protection.
- SMD 3.0











Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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

| Technical Specification | | | | | | | | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting |
|----------------------------|--------------------------|--|---|----------------------|---------------------|--|-----------------------------|---|
| Camera | | | | | | | Face Detection | |
| Image Sensor | | 1/2.7" CMOS | | | | | | |
| Max. Resolution | | 2592 (H) × 1944 (V) | | | | | People Counting | Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/ |
| ROM | ROM | | 128 MB | | | | | monthly/daily reports. Support the counting of number in area, and 4 rules |
| RAM | | 512 MB | | | | | | configuration. Count number of people or stay time and link alarm. |
| Scanning Sys | Scanning System | | Progressive | | | | | Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm. |
| Electronic SI | Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | Smart Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event |
| Min. Illumin | Min. Illumination | | 0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | videos Video | |
| S/N Ratio | | >56 dB | | | | | | H.265; H.264; H.264H; H.264B; MJPEG (Only supported |
| Illumination | Distance | 50 m (164.04 ft) (IR) | | | | | Video Compression | by the sub stream) |
| Illuminator (| On/Off Control | Auto; manual | | | | | Smart Codec | Smart H.265+; Smart H.264+ |
| Illuminator I | | 2 (IR LED) | | | | | Al Coding | AI H.265; AI H.264 |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° | | | | | Video Frame Rate | Main stream: $2592 \times 1944@(1-20 \text{ fps})/2688 \times 1520@(1-25/30 \text{ fps})/1920 \times 1080@(1-50/60 \text{ fps})$ Sub stream: $01@(1-25/30 \text{ fps})$ Third stream: $080p@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected. |
| Lens Type | | Fixed-focal | | | | | | to the total encoding capacity. |
| Lens Mount | | M12 | | | | | Stream Capability | 3 streams |
| Focal Length | | 2.8 mm; 3.6 mm; 6 mm | | | | | Resolution | 2688 × 1520; 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) |
| Max. Apertu | ure | F1.6 | | | | | Bit Rate Control | CBR/VBR |
| Field of View | | 2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63° | | | | | Video Bit Rate | H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps |
| Iris Control | | Fixed | | | | | Day/Night | Auto (ICR)/Color/B/W |
| | | 2.8 mm: 0.9 m (2.96 ft) | | | | | BLC | Yes |
| Close Focus | Close Focus Distance | | m (5.25 ft) ı (10.17 ft) | | | | HLC | Yes |
| | Lens | Detect | Observe | Recognize | Identify | | WDR | 120 dB |
| DORI | 2.8 mm | 56 m (183.73 ft) | 22.4 m (73.49 ft) | 11.2 m (36.75 ft) | 5.6 m (18.37 ft) | | Scene Self-adaptation (SSA) | Yes |
| Distance | 3.6 mm | 80 m (262.47 ft) | 32 m (104.99 ft) | 16 m (52.49 ft) | 8 m (26.25 ft) | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| | 6 mm | 120 m (393.70 ft) | 48 m (157.48 ft) | 24 m (78.74 ft) | 12 m (39.37 ft) | | Gain Control | Auto;Manual |
| Smart Ev | Smart Event | | | | | | Noise Reduction | 3D NR |
| IVS | | Abandoned object; missing object | | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| Heat Map | | Yes | | | | | Region of Interest (RoI) | Yes (4 areas) |
| Professio | nal, intellige | ent | | | | | Defog | Yes |
| IVS (Perimeter Protection) | | Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection | | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower) |
| | | of vehicle and human); loitering detection, people gathering, and parking detection | | | | | Mirror | Yes |
| SMD 3.0 | | Less false alarm, longer detection distance | | | | | 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 | | | |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; SMD; people counting in arestay detection; people counting; security exception | | |
| Network | | | |
| Network Port | 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 | | |
| Network Protocol | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTC RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1 SNMP | | |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P | | |
| User/Host | 20 (Total bandwidth: 80 M) | | |
| Storage | FTP; SFTP; Micro SD card (support max. 256 GB); NAS | | |
| Browser | IE: IE 8 and later Chrome Firefox | | |
| Management Software | Smart PSS; DSS; DMSS | | |
| Mobile Client | iOS; Android | | |
| Certification | | | |
| Certifications | CE-LVD: EN60950-1; 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 | | | |
| Power Supply | 12 VDC/PoE (802.3af)/ePoE | | |
| Power Consumption | Basic: 2.1 W (12 VDC); 2.6 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 6.2 W (12 VDC); 7.2 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) | | |
| Protection | IP67 | | |
| Structure | | | |
| Casing | Metal + plastic | | |
| Product Dimensions | Φ106 mm × 93.6 mm (Φ4.17" × 3.69") | | |
| | | | |

| Net Weight | 545 g (1.20 lb) |
|--------------|-----------------|
| Gross Weight | 710 g (1.57 lb) |

| Ordering Information | | | | | |
|------------------------|-----------------------|--|--|--|--|
| Туре | Model | Description | | | |
| 5MP Camera | DH-IPC-HDW5541TMP-ASE | 5MP IR Fixed-focal Eyeball WizMind Network Camera, PAL | | | |
| Sivir Calliera | DH-IPC-HDW5541TMN-ASE | 5MP IR Fixed-focal Eyeball WizMind Network Camera, NTSC | | | |
| | PFB204W | Wall mount Bracket | | | |
| | PFA139 | Junction Box | | | |
| | PFA130-E | Junction Box | | | |
| Accessories (Optional) | PFA106 | Mount Adapter | | | |
| | PFM321D | 12 VDC 1A Power Adapter | | | |
| | PFM900-E | Integrated Mount Tester | | | |
| | TF-P100 | MicroSD Memory Card | | | |

Accessories

Optional:



PFB204W Wall Mount Bracket



PFA139 Junction Box



PFA130-E JunctionBox



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter

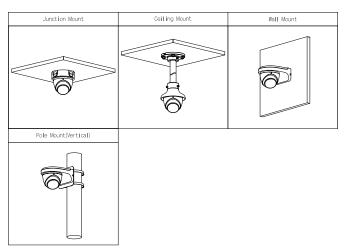


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

