



DH-IPC-HFW3441T-ZAS

4MP IR Vari-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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

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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max, IR distance: 60 m
- 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10(optional) protection
- SMD Plus













Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

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 works 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.



× 240)

| Technical S _I | pecification | on | | | | Bit Rate Control | CBR/VBR |
|--|-------------------|---|---|----------------------|---------------------|-----------------------------------|---|
| Camera | | | | | | Video Bit Rate | H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps |
| Image Sensor | | 1/3"4Megapixel progressive CMOS | | | | Day/Night | Auto(ICR)/Color/B/W |
| Max. Resolution | | 2688 (H) ×1520 (V) | | | | BLC | Yes |
| ROM | | 128 MB | | | | HLC | Yes |
| RAM | | 512 MB | | | | WDR | 120 dB |
| Scanning System | m | Progressive | | | | Add to D. I. | Auto/natural/street lamp/outdoor/manual/regional |
| Electronic Shut | ter Speed | Auto/Manual | 1/3 s-1/10000 | 00 s | | White Balance | custom |
| Adia IIIia atia | | 0.005 Lux@F1.5 (Color, 30IRE) | | | | Gain Control | Auto/Manual |
| Min. Illuminatio | Min. Illumination | | 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on) | | | Noise Reduction | 3D DNR |
| S/N Ratio | | > 56 dB | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| Illumination Dis | stance | 60 m (197 ft) | | | | Region of Interest(RoI) | Yes (4 areas) |
| Illuminator On/ | Off Control | Auto/Manual | | | | Smart Illumination | Yes |
| Illuminator Nun | nber | 4 (IR LED) | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.) |
| Pan/Tilt/Rotation Range | | Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360° | | | 60° | Mirror | Yes |
| Lens Lens Type | | Motorized vari-focal | | | | Privacy Masking | 4 areas |
| Mount Type | | ф14 | | | | Audio | |
| Focal Length | | 2.7 mm-13.5 mm | | | | Audio Compression | G.711a; G.711Mu; G726 |
| Max. Aperture | | F1.5 | | | | Alarm | |
| Field of View | | Horizontal: 104°–27° Vertical: 55° –15° Diagonal: 124° –31° | | | | 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 |
| Iris Type | | Fixed | | | | | changing; input abnormal; intensity change; tripwire; intrusion; SMD |
| Close Focus Dis | tance | 0.8 m (2.6 ft) | | | | Network | |
| | Lens | Detect | Observe | Recognize | Identify | Network | RJ-45 (10/100 Base-T) |
| DORI Distance | W | 64.0 m (210.0ft) | 25.6 m (84.0 ft) | 12.8 m (42.0 ft) | 6.4 m (21.0 ft) | SDK and API | Yes |
| | Т | 222.0 m (728.3 ft) | 88.8m (291.3 ft) | 44.4 m (145.7 ft) | 22.2 m (72.8 ft) | Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; |
| Professional, Intellige | | ent | | | | 1100001 | Multicast; ICMP; IGMP; NFS; PPPoE; SNMP |
| Perimeter Protection Intelligent Search | | Tripwire; intrusion (Recognition of human and vehicle) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event | | | | 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 |
| Video | | videos | | | | Interoperability | ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec |
| Video Compression | | H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream) | | | | Scene Self-adaptation (SSA) | Yes |
| Smart Codec | | Smart H.265+/ Smart H.264+ | | | | User/Host | 20 (Total bandwidth: 64 M) |
| Video Frame Rate | | Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) | | | | Storage | FTP; SFTP; Micro SD Card (support max. 256 G); NAS |
| | | third stream (1280 × 720@1–25/30 fps) | | | | Browser | IE: IE8, IE9, IE11 Chrome |
| Stream Capability | | 3 streams 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × | | | | | Firefox |
| Resolution | | 4M (2688 × 1520); 3M (2304 × 1296); 1080þ (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) | | | 20); D1 (704 | Management Software Mobile Phone | Smart PSS, DSS, DMSS IOS; Android |

Wiz Sense | DH-IPC-HFW3441T-ZAS

Certification

| Certifications | CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU |
|----------------|--|
| cer unioutions | FCC: 47 CFR FCC Part 15, Subpart B |

Port

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

Power

| Power Supply | 12V DC/PoE (802.3af) |
|-------------------|----------------------|
| Power Consumption | <9.8W |

Environment

| Operating Conditions | -30°C to +60°C (-22°F to +140°F)/less than 95% |
|----------------------|--|
| Storage Conditions | -40°C to +60°C (-40°F to +140°F) |
| Protection Grade | IP67 |

Structure

| Casing | Metal |
|--------------|--|
| Dimensions | 244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H) |
| Net Weight | 820 g (1.8lb) |
| Gross Weight | 1090 g (2.4lb) |

Ordering Information Part Number Type Description 4MP IR Vari-focal Bullet WizSense DH-IPC-HFW3441TP-ZAS Network Camera,PAL 4MP Camera 4MP IR Vari-focal Bullet WizSense DH-IPC-HFW3441TN-ZAS Network Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA130-E Junction Box

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter



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



PFM900-F Integrated Mount tester



PFM114 TLC SD card

| Pole Mount | Junction Box |
|-------------------|--------------|
| PFA130-E+PFA152-E | PFA130-E |
| | |

Dimensions (mm[inch])



