

DH-IPC-HDBW3441E-S

4MP IR Fixed focal Dome WizSense Network Camera



Wiz Sense

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: 50 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



3 streams

Stream Capability

| Technical Specification | | | | | | | 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) | | |
|--------------------------|--------------|---|----------------------|---------------------|--------------------|------------|---|---|--|
| Camera | | | | | | Resolution | | | |
| Image Sensor | | 1/3" 4Megapixel progressive CMOS | | | | | Bit Rate Control | CBR/VBR | |
| Max. Resolution | | 2688 (H) ×1520 (V) | | | | | Video Bit Rate | H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps | |
| ROM | | 128 MB | | | | | Day/Night | Auto(ICR)/Color/B/W | |
| RAM | | 512 MB | | | | | BLC | Yes | |
| Scanning System | | Progressive | | | | | HLC | Yes | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s–1/100000 s | | | | | WDR | 120 dB | |
| Min. Illumination | | 0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on) | | | | | White Balance | Auto/natural/street lamp/outdoor/manual/regional custom | |
| S/N Ratio | | > 56 dB | | | | | Gain Control | Auto/Manual | |
| Illumination Dis | tance | 50 m (164.0 ft) | | | | | Noise Reduction | 3D DNR | |
| Illuminator On/ | Off Control | Auto/Manual | | | | | Motion Detection | OFF/ON (4 areas, rectangular) | |
| Illuminator Number | | 3 (IR LED) | | | | | Region of Interest(RoI) | Yes (4 areas) | |
| Pan/Tilt/Rotation Range | | Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355° | | | | | Smart Illumination | Yes | |
| Lens | | | | | | | Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.) | |
| Lens Type | | Fixed-focal | | | | | Mirror | Yes | |
| Mount Type | | M12 | | | | | | 4 areas | |
| Focal Length | | 2.8 mm; 3.6 mm; 6 mm | | | | | Privacy Masking Alarm | 4 dieds | |
| Max. Aperture | | F1.6 | | | | | Aldilli | No SD card; SD card full; SD card error; less service time | |
| Field of View | | 2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61° | | | | | Alarm Event | of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity change; tripwire; intrusion; SMD | |
| Iris Type | | Fixed | | | | | Network | change, tripwine, intrusion, sivib | |
| Close Focus Dis | tance | 2.8 mm: 0.9 r 3.6 mm: 1.6 r 6 mm: 3.2 m | n (5.3 ft) | | | | Network | RJ-45 (10/100 Base-T) | |
| | Lens | Detect | Observe | Recognize | Identify | | SDK and API | Yes | |
| | 2.8mm | 56.0 m (183.7 ft) | 22.4 m (73.5 ft) | 11.2 m (36.8 ft) | 5.6 m (18.4 ft) | | Protocol | IPv4; IPv6; HTTP; TCP/IP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; | |
| DORI Distance | 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) | | | Multicast; ICMP; IGMP; NFS; PPPoE; SNMP 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 | |
| | 6mm | 120.0 m (393.7 ft) | 48.0 m (157.5 ft) | 24.0 m (78.7 ft) | 12.0 m (39.4ft) | | Cyber Security | | |
| Professiona | l, Intellige | ent | | | | | | | |
| Perimeter Protection | | Tripwire; intrusion (Recognition of human and vehicle) | | | | | Interoperability | ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec | |
| Intelligent Search | | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos | | | | | Scene Self-adaptation (SSA) | Yes | |
| \ | | video3 | | | | | User/Host | 20 (Total bandwidth: 64 M) | |
| Video | | H.265; H.264; H.264H; H.264B; MJPEG(only supported | | | | | Storage | FTP; SFTP; Micro SD Card (support max. 256 G); NAS | |
| Video Compression | | by sub stream) | | | | | Browser | IE: IE8, IE9, IE11 Chrome | |
| Smart Codec | | Smart H.265+/ Smart H.264+ | | | | | Management Software | Firefox Smart PSS, DSS, DMSS | |
| Video Frame Rate | | Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) | | | | | Mobile Phone | IOS; Android | |
| video France Nate | | third stream (1280 × 720@1–25/30 fps) | | | | | widdlie Pridile | ios, Android | |

Certification

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

Certifications

| Power Supply | 12V DC/PoE (802.3af) | | |
|-------------------|----------------------|--|--|
| Power Consumption | <7.3W | | |

Environment

| 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; IK10 | | |

Structure

| Casing | Metal |
|--------------|----------------------------------|
| Dimensions | 81 mm × Φ109.9 mm (3.2" × Φ4.3") |
| Net Weight | 378 g (0.8 lb) |
| Gross Weight | 523 g (1.2 lb) |

Ordering Information Type Part Number Description 4MP IR Fixed focal Dome WizSense DH-IPC-HDBW3441EP-S Network Camera,PAL 4MP Camera 4MP IR Fixed focal Dome WizSense DH-IPC-HDBW3441EN-S Network Camera, NTSC PFA136 Junction Box Rain Shade PFA200W PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter Accessories PFB220C Celling Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:



PFA136 Junction Box



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB203W Wall Mount



PFB220C Ceiling 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 | Wall Mount | Pole Mount |
|----------------|----------------|------------|------------------|
| PFA136 | PFA136+PFA200W | PFB203W | PFB203W+PFA152-E |
| | | | |
| Ceiling Mount | | | |
| PFA106+PFB220C | | | |
| | | | |

Dimensions (mm[inch])



