

DH-IPC-HDBW3666EP-AS-AUS

6MP IR Fixed-focal Dome WizSense Network Camera





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

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its Al Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and Al SSA (Al Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

ALSSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

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.

- 6-MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 6 MP (3072 × 2048) @25/30 fps.
- H.265 codec allows high compression ratio and ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 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 detection: Intrusion, tripwire (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; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- SMD 4.0, AI SSA.













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.

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

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 comprising the device.

| Technical Specification | | | | Smart Codec | Smart H.265+ Smart H.264+ | | | |
|----------------------------|-------------------------|---|---|--|------------------------------|-----------------------------|---|--|
| Camera | | | | | | | Al Coding | AI H.265 |
| Image Sensor | | 1/2.7" CMOS | | | | 3 | Al H.264 Main stream: 3072 × 2048 @ (1–25/30) fps | |
| Max. Resolution | | 3072 (H) × 2048 (V) | | | | | | Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) |
| ROM | | 128 MB | | | | | Video Frame Rate | Sub stream 2: 1920 × 1080 @ (1–25/30 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 |
| RAM | | 1 GB | | | | | | |
| Scanning Sys | stem | Progressive | | | | Stream Capability | 3 streams | |
| Electronic Sh | nutter Speed | Auto/Manual 1/3 s–1/100,000 s | | | | | 6M (3072 × 2048); 5M (2592 × 1944); 4M (2688 × 1520); | |
| Min. Illumina | Min. Illumination | | 0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | Resolution | 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480) |
| S/N Ratio | | >56 dB | | | | | Bit Rate Control | CBR/VBR |
| Illumination | | 30 m (98.43 f | | | | | Video Bit Rate | H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps |
| | On/Off Control | Auto/Manual | | | | Day/Night | Auto (ICR)/Color/B/W | |
| Illuminator N | | 3 (IR LED) | | | | BLC | Yes | |
| | Pan/Tilt/Rotation Range | | Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355° | | | | HLC | Yes |
| Lens | | | | | | WDR | 120 dB | |
| Lens Type | | Fixed-focal | | | | Scene Self-adaptation (SSA) | Yes | |
| Lens Mount | | M12 | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional | |
| _ | Focal Length | | 2.8 mm; 3.6 mm | | | | Gain Control | custom |
| Max. Apertu | ire | F1.4 | | | | Noise Reduction | 3D NR | |
| Field of View | 1 | | | rtical: 71°; Diag rtical: 57°; Diag | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| Iris Control | | | | | | Region of Interest (RoI) | | |
| mis control | | Fixed | | | | | Yes (4 areas) | |
| Close Focus | Distance | 2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (18.37 ft) | | | | Defog | Yes | |
| | Lens | Detect | Observe | Recognize | Identify | | AFSA | Yes 0°/90°/180°/270° (support 90°/270° with 2688×1520 |
| | 2.8 mm | 63.6 m | 25.4 m | 12.7 m | 6.4 m | | Image Rotation | resolution and lower) |
| DORI Distance | 2.0 | (208.66 ft) 85.4 m | (83.33 ft) 34.2 m | (41.67 ft) 17.1 m | (21.00 ft) 8.5 m | | Mirror | Yes |
| Distance | 3.6 mm | (280.18 ft) | (112.20 ft) | (56.10 ft) | (27.89 ft) | | Privacy Masking | 4 areas |
| | | | | | | | Audio | |
| Intelligence | | | | | | | Built-in MIC | Yes |
| IVS (Perimeter Protection) | | Tripwire, intrusion (support the classification and accurate detection of vehicle and human) | | | | Audio Compression | G.711a; G.711Mu; PCM; G.726; G.723 | |
| AI SSA | | Yes | | | | | Alarm | |
| Quick Pick | | With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events | | | | | Alarm Event | No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external |
| Smart Search | | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos | | | | | alarm; SMD; safety exception | |
| Video | | | | | | | Network | |
| Video Compression | | H.265; H.264; H.264H; H.264B; MJPEG (only supported | | | | Network Port | RJ-45 (10/100 Base-T) | |
| video compression | | by the sub stream) | | | | SDK and API | Yes | |

| Network 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 | |
|---------------------|---|--|
| 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 | |
| User/Host | 20 (Total bandwidth: 64 M) | |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); NAS | |
| Browser | IE:IE11 Chrome Firefox | |
| Management Software | Smart PSS; DSS; DMSS | |
| Mobile Client | iOS; Android | |
| | | |

Certification

| | CE-LVD: EN62368-1; |
|----------------|--|
| | CE-EMC: Electromagnetic Compatibility Directive |
| Certifications | 2014/30/EU; |
| | FCC: 47 CFR FCC Part 15, Subpart B; |
| | UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 |

Port

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

Power

| Power Supply | 12 VDC/PoE (802.3af) |
|-------------------|--|
| Power Consumption | Basic: 4 W (12 VDC); 4.9 W (POE) Max. (WDR + IR intensity + Intelligence): 8.5 W (12 VDC); 9.7 W (POE) |

Environment

| Operating Temperature | -40°C to +60°C (-40°F to 140°F) /Less than 95% RH | | |
|-----------------------|---|--|--|
| Storage Temperature | -40°C to +60°C (-40°F to 140°F) | | |
| Protection | IP67; IK10 | | |

Structure

| Casing | Metal |
|--------------------|--------------------------------------|
| Product Dimensions | 89.1 mm × Φ111.7 mm (3.50" × Φ4.40") |
| Net Weight | 516 g (1.14 lb) |
| Gross Weight | 670 g (1.48 lb) |

| Ordering Information | | | |
|----------------------|--------------------------|--|--|
| Туре | Model | Description | |
| 6MP Camera | DH-IPC-HDBW3666EP-AS-AUS | 6MP IR Fixed-focal Dome WizSense Network Camera | |
| | PFA137 | Junction Box Bracket | |
| | PFA109 | Mount Adapter | |
| | PFB220C | Ceiling Mount Bracket | |
| Accessories | PFB203W | Wall Mount | |
| (Optional) | PFA152-E | Pole mount | |
| | PFM321D | 12 VDC 1 A Power Adapter | |
| | PFM900-E | Integrated Mount Tester | |
| | TF-P100 | TLC SD Card | |

Accessories

Optional:







PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFB203W Wall Mount



PFA152-E Pole mount



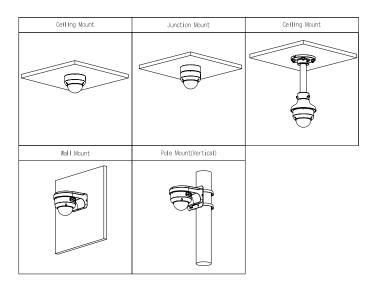
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

