

DH-IPC-HDBW3541R-ZS

5MP Lite AI IR Vari-focal Dome Network Camera



- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944)@20 fps
- · H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 40 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
- Abnormality detection: Motion detection, video tempering, 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 support
- IP67, IK10 protection
- · SMD













System Overview

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

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.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

Smart Motion Detection (SMD)

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

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 m (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.



| Technical Specification | | | | | | Day/Night | Auto(ICR)/Color/B/W | | |
|--------------------------|-----------|--|----------------------|-------------------------------|---------------------|-------------------------|---|--|--|
| Camera | | | | | | BLC | Yes | | |
| Image Sensor | | 1/2.7"5Megapixel progressive CMOS | | | | HLC | Yes | | |
| Effective Pixels | | 2592 (H) ×1944 (V) | | | | WDR | 120 dB | | |
| ROM | | 128 MB | | | | White Balance | Auto/natural/street lamp/outdoor/manual/regional custom | | |
| RAM | | 512 MB | | | | Gain Control | Auto/Manual | | |
| Scanning System | | Progressive | | | | Noise Reduction | 3D DNR | | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s–1/100000 s | | | | Motion Detection | OFF/ON (4 areas, rectangular) | | |
| Min. Illumination | | 0.005 Lux@F1.5 | | | | Region of Interest(RoI) | Yes (4 areas) | | |
| IR Distance | | 40 m (131.23 ft) | | | | Smart IR | Yes | | |
| IR On/Off Control | | Auto/Manual | | | | Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.) | | |
| IR LEDs Number | | 2 (IR LEDs) | | | | Mirror | Yes | | |
| Pan/Tilt/Rotation Range | | Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355° | | | | Privacy Masking | 4 areas | | |
| Lens | | | | | | Network | | | |
| Lens Type | | Motorized vari-focal | | | | Network | RJ-45 (10/100 Base-T) | | |
| Mount Type | | ф14 | | | | Network | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; | | |
| Focal Length | | 2.7 mm-13.5 mm | | | | Protocol | DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP | | |
| Max. Aperture | | F1.5 | | | | Interoperability | ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec | | |
| Field of View | | Horizontal: 9 Vertical: 72° | -20° | | | Scene Self-adaptation | Yes | | |
| | | | 3° –33° | | | User/Host | 20 (Total bandwidth: 64 M) | | |
| Iris Type | Iris Type | | re | | | Edge Storage | FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS | | |
| Close Focus Dista | ance | 0.8 m (2.6 ft) | | | | | IE: IE8, IE9, IE11 | | |
| | Lens | Detect | Observe | Recognize | Identify | Browser | Chrome Firefox | | |
| DORI Distance | W | 64.0 m (210.0 ft) | 25.6 m (84.0 ft) | 12.8 m (42.0 ft) | 6.4 m (21.0 ft) | Management Software | Smart PSS, DSS, DMSS | | |
| | Т | 222.0 m (728.3 ft) | 88.8 m (291.3 ft) | 44.4 m (145.7 ft) | 22.2 m (72.8 ft) | Mobile Phone | IOS; Android | | |
| Professional, | Intellig | ent | | | | Certification | | | |
| Perimeter Protec | ction | Tripwire; intr | usion (Recogni | ition of human | and vehicle) | | CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive | | |
| Intelligent Search | | - | | NVR to perform raction and me | | Certifications | 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 | | |
| Video | | viacos | | | | Power | Power | | |
| Video Compression | | H.265; H.264; H.264H; H.264B; MJPEG | | | | Power Supply | 12V DC/PoE (802.3af) | | |
| Smart Codec | | Yes | | | | Power Consumption | <8.5W | | |
| | | | (2592 × 1944@ | ⊋1–20 fps) | | Environment | | | |
| Video Frame Rate | | (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25/30 fps) third stream (1280 × 720@1–25/30 fps) | | | | Operating Conditions | -30°C to +60°C (-22°F to +140°F)/less than≤95% | | |
| Stream Capability | | 3 streams | | | | Strorage Conditions | -40°C to +60°C (-40°F to +140°F) | | |
| Resolution | | 5M (2592 × 1944); 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) | | | | Ingress Protection | IP67; IK10 | | |
| | | | | | | Structure | | | |
| | | | | | | Casing | Metal + Plastic | | |
| Bit Rate Control | | CBR/VBR | | | | Dimensions | Φ122 mm × 88.9 mm (Φ4.8" × 3.5") | | |

Net Weight

492 g (1.1 lb)

H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps

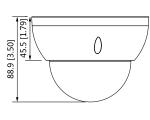
Video Bit Rate

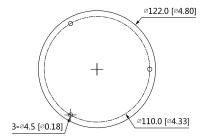
Gross Weight 663 g (1.5 lb)

| Ordering | ering Information | | | | |
|-------------|----------------------|---|--|--|--|
| Туре | Part Number | Description | | | |
| 5MP | DH-IPC-HDBW3541RP-ZS | 5MP Lite AI IR Vari-focal Dome Network Camera,PAL | | | |
| Camera | DH-IPC-HDBW3541RN-ZS | 5MP Lite AI IR Vari-focal Dome Network Camera,NTSC | | | |
| | PFA137 | Junction Box | | | |
| | PFB203W | Wall Mount | | | |
| | PFA152-E | Pole Mount | | | |
| | PFA200W | Rain Shade | | | |
| | PFA106 | Mount Adapter | | | |
| Accessories | PFB220C | Celling Mount | | | |
| (optional) | PFB200C | In-Celling 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 |
|----------------|------------------|------------|------------------|
| PFA137 | PFA137+PFA200W | PFB203W | PFB203W+PFA152-E |
| | | | |
| Ceiling Mount | In-Ceiling Mount | | |
| PFA106+PFB220C | PFB200C | | |
| | (S) | | |

Dimensions (mm[inch])





Accessories

Optional:



PFA137 Junction Box



PFB203W Wall Mount



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



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PFB200C In-Celling 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

