

DH-IPC-HDBW2231R-ZAS-S2

2MP WDR IR Dome Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- · H.265 codec, high compression rate, ultra-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 tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67, IK10 protection grade















System Overview

With updraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

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.

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 Sp | ecificati | on | | | | | Video Bit Rate | H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps | |
|--------------------------|----------------|--|--------------------------------|-------------------------------|-------------------------------|-----------|--------------------------|--|--|
| Camera | | | | | | Day/Night | | | |
| Image Sensor | | 1/2.8" 2Megapixel progressive CMOS | | | | | BLC | Yes | |
| Effective Pixels | | 1920 (H) × 1080 (V) | | | | | HLC | Yes | |
| ROM | | 128 MB | | | | | WDR | 120 dB | |
| RAM | | 128 MB | | | | | | Auto/natural/street lamp/outdoor/manual/regional | |
| Scanning System | | Progressive | Progressive | | | | White Balance | e Balance custom | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s–1/100000 s | | | | | Gain Control | Auto/Manual | |
| Min. Illumination | | 0.002Lux @ F1.5 | | | | | Noise Reduction | 3D DNR | |
| IR Distance | | 40 m (131.23 ft) | | | | | Motion Detection | OFF/ON (4 areas, rectangular) | |
| IR On/Off Control | | Auto/Manual | | | | | Region of Interest(RoI) | Yes (4 areas) | |
| IR LEDs Number | IR LEDs Number | | 2 | | | | Smart IR | Yes | |
| Pan/Tilt/Rotation Range | | Pan: 0°–355° Tilt: 0°–75° | | | | | Image Rotation | 0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.) | |
| Lens | | Rotation: U – | Rotation: 0°–355° | | | | Mirror | Yes | |
| Lens Type | | Motorized vari-focal | | | | | Privacy Masking | 4 areas | |
| | | ф14 | | | | | Audio | | |
| Mount Type | | | | | | | Audio Compression | G.711a; G.711Mu; G.726; AAC | |
| Focal Length | | 2.7mm–13.5mm | | | | | Network | | |
| Max. Aperture | | F1.5 | | | | | Network | RJ-45 (10/100 Base-T) | |
| Field of View | | Pan: 109°–28° Tilt: 57°–16° Diagonal: 131°–33° | | | | | Protocol | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour | |
| Iris Type | | Fixed aperture | | | | | | ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; | |
| Close Focus Dista | ance | 0.8 m-0.8 m (2.62 ft-2.62 ft) | | | | | Interoperability Genetec | | |
| | Lens | Detect | Observe | Recognize | Identify | | User/Host | 20 | |
| DORI Distance | W | 44.1 m (144.69 ft) 151.7 m | 17.6 m (57.74 ft) 60.6 m | 8.8 m (28.87 ft) 30.3 m | 4.4 m (14.44 ft) 15.1 m | | Edge Storage | Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS | |
| Smart Event | Т | (497.70 ft) | (198.82 ft) | (99.41 ft) | (49.65 ft) | | Browser | IE Chrome Firefox | |
| General IVS Anal | lytics | Tripwire; intrusion | | | | | Management Software | Smart PSS; DSS; DMSS | |
| Video | | | | | | | Mobile Phone | IOS; Android | |
| Video Compress | ion | H.265; H.264; H.264B; MJPEG | | | | | Certification | | |
| Smart Codec | Smart Codec | | Yes | | | | 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 | |
| Video Frame Rate | | Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) | | | | | | | |
| | | 704 × 480 (1 fps-30 fps) | | | | | Port | | |
| Stream Capability | | 2 streams | | | | | Audio Input | 1 channel (RCA port) | |
| Resolution | | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) | | | | | Audio Output | 1 channel (RCA port) | |
| nesolution | | | | | | | Alarm Input | 1 channel In: 5mA 3V–5VDC | |
| Bit Rate Control | | CBR/VBR | | | | | Alarm Output | 1 channel Out: 300mA 12VDC | |

Power

| Power Supply | 12V DC/PoE (802.3af) | | |
|----------------------|--|--|--|
| Power Consumption | < 6.4W | | |
| Environment | | | |
| Operating Conditions | -30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH | | |
| Storage Temperature | -40°C to +60°C (-40°F to +140°F) | | |
| Protection Grade | IP67; IK10 | | |

Structure

| Casing | Metal |
|--------------|------------------------------------|
| Dimensions | Φ122 mm × 88.9 mm (Φ4.80" × 3.50") |
| Net Weight | 0.47 kg (1.04 lb) |
| Gross Weight | 0.63 kg (1.39 lb) |

| Ordering Information | | | | | |
|----------------------|--------------------------|--|--|--|--|
| Туре | Part Number | Description | | | |
| 2MP | DH-IPC-HDBW2231RP-ZAS-S2 | 2MP WDR IR Dome Network Camera,PAL | | | |
| Camera | DH-IPC-HDBW2231RN-ZAS-S2 | 2MP WDR IR 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 | | | |

Accessories

Optional:









PFA200W Rain Shade



PFB203W Wall Mount



PFA106 Mount Adapter



PFA152-E Pole Mount



PFB220C Celling Mount



PFB200C In-Celling Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



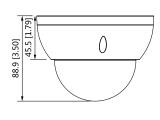
PFM900-E Integrated Mount Tester

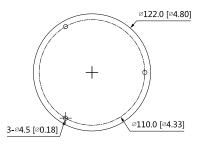


PFM114 TLC SD Card

| Junction Mount | Wall Mount | Wall Mount | Pole Mount |
|----------------|------------------|------------|------------------|
| PFA137 | PFA137+PFA200W | PFB203W | PFB203W+PFA152-E |
| | | | |
| Ceiling Mount | In-Ceiling Mount | | |
| PFA106+PFB220C | PFB200C | | |
| | | | |

Dimensions (mm[inch])







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