# DH-IPC-HDBW5442R-ASE

## 4MP WDR IR Dome WizMind Network Camera

· 1/1.8" 4Megapixel progressive scan CMOS

· ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments

· 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)

· WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC

· Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS

· 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)

· 1/1 Alarm in/out, 1/1 audio in/out

· Max. IR LEDs Length 50 m

· Micro SD memory, IP67, IK10

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

## Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

## Functions

### Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

### 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

### People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

### ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/1.8" 4Megapixel progressive scan CMOS |
| Max. Resolution | 2688 (H) × 1520 (V) |
| RAM/ROM | 512 MB/128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual, 1/3 s–1/100000 s |
| S/N Ratio | > 56 dB |
| Minimum Illumination | 0.001 Lux@F1.6 (color), 0 lux@F1.6 (IR ON) |
| Illumination Distance | Distance up to 50 m (164 ft) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 1 (IR LED) |

### Lens

| | |
|---|---|
| Lens Type | Fixed-focal |
| Mount Type | Board-in |
| Focal Length | 2.8 mm, 3.6 mm, 6.0 mm |
| Max. Aperture | F1.6 |
| Angle of View | H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31° |
| Aperture Type | Fixed |
| Close Focus Distance | 1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft) |

| | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| DORI Distance | 2.8mm | 58m(190ft) | 23m(75ft) | 12m(39ft) | 6m(20ft) |
| | 3.6mm | 72m(236ft) | 29m(95ft) | 14m(46ft) | 7m(23ft) |
| | 6.0mm | 113m(371ft) | 45m(148ft) | 23m(75ft) | 11m(36ft) |

### Pan/Tilt/Rotation

| | |
|---|---|
| Pan/Tilt/Rotation Range | Pan: 0˚–355˚; Tilt: 0˚–75˚; Rotation: 0˚–355˚ |

### Artificial Intelligence

| | |
|---|---|
| Face Detection | Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting |
| Perimeter Protection | Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection |
| People Counting | Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm |

### General Intelligence

| | |
|---|---|
| Event Trigger | Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly |
| General Intelligence | Object Abandoned/Missing |
| Heat Map | Yes |

### Video

| | |
|---|---|
| Compression | H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream) |
| Smart Codec | Smart H.265+/ Smart H.264+ |
| Streaming Capability | 3 Streams |
| Resolution | 2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240) |
| Frame Rate | Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps) Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps) Third Stream: D1 (1 fps–25fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps |
| Day/Night | Auto(ICR)/Color/B/W |
| BLC Mode | BLC/HLC/WDR (140 dB) |
| White Balance | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | Off/On (4 Zone, Rectangle) |
| Region of Interest | Off/On (4 Zone) |
| Smart Illumination | Yes |
| Defog | Yes |
| Flip | 0°/90°/180°/270° |
| Mirror | Off/On |
| Privacy Masking | Off/On (4 Area, Rectangle) |

### Alarm

| | |
|---|---|
| Alarm Event | No SD card;SD card full;SD card error;network disconnection;IP conflict;illegal access;voltage detection;motion detection;video tampering;scene changing;intrusion;tripwire;abandoned object;missing object;fast moving;parking detection;loitering detection;people gathering;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management |

### Network

| | |
|---|---|
| Ethernet | RJ-45 (10/100 Base-T) |
| 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;SNMP |

| Interoperability | ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P |
|---|---|
| User/Host | 20 Users |
| Storage | NAS;FTP;SFTP;Dahua Cloud<br>Micro SD card 256 GB |
| Browser | IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12) |
| Management Software | Smart PSS, DSS, DMSS |
| Mobile Phone | iOS, Android |

## Certifications

| Certifications | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |
|---|---|

## Interface

| Audio Interface | 1/1 channel In/Out |
|---|---|
| Alarm | 1 channel In: 5mA 5V DC<br>1 channel Out: 300mA 12V DC |

## Electrical

| Power Supply | DC 12V (±30%), PoE (802.3af) |
|---|---|
| Power Consumption | <6.1W |

## Environmental

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

## Construction

| Casing | Metal |
|---|---|
| Dimensions | Φ122.0 mm × 88.9 mm (4.80" × 3.50") |
| Net Weight | 0.47 kg (1.04 lb) |
| Gross Weight | 0.63 kg (1.39 lb) |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 4MP camera | DH-IPC-HDBW5442RP-ASE | 4MP WDR IR Dome WizMind Network Camera, WDR, PAL |
| | DH-IPC-HDBW5442RN-ASE | 4MP WDR IR Dome WizMind Network Camera, WDR, NTSC |
| | IPC-HDBW5442RP-ASE | 4MP WDR IR Dome WizMind Network Camera, WDR, PAL |
| | IPC-HDBW5442RN-ASE | 4MP WDR IR Dome WizMind Network Camera, WDR, NTSC |

| | PFA137 | Junction box |
|---|---|---|
| | PFB200C | Inceiling Mount |
| | PFA200W | Rain Shade |
| | PFA123 | Junction box |
| Accessories (optional) | PFB203W | Wall Mount |
| | PFA152-E | Pole Mount |
| | PFA106 | Mount Adapter |
| | PFB220C | Ceiling Mount |

## Accessories

### Optional:



PFA137
Junction box

PFB200C
Inceiling Mount

PFA200W
Rain Shade

PFA123
Junction box

PFB203W
Wall Mount

PFA152-E
Pole Mount

PFA106
Mount Adapter

PFB220C
Ceiling Mount

LR1002
ePoE Over Coax Converter

| Junction Mount | Inceiling Mount | Wall Mount with Rain Shade | Junction Mount |
|---|---|---|---|
| PFA137 | PFB200C | PFA200W | PFA123 |
| | | | |
| Wall Mount | Pole Mount | Ceiling Mount | |
| PFB203W | PFB203W + PFA152-E | PFA106+ PFB220C | |

## Dimensions (mm[inch])



88.9 [3.5"]   45.5 [1.79"]

⌀122.0 [⌀4.8"]

3-⌀4.5 [⌀0.18"]   ⌀110.0 [⌀4.33"]