

# DH-IPC-EB5541-AS

## 5MP WizMind Fisheye Network CAMERA



**WizMind**

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 fisheye lens, Dahua Fisheye series camera can realize 360° surveillance, and it is widely applied in various scenes such as airports, shopping centers, banks and hotels.

### Functions

#### 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.

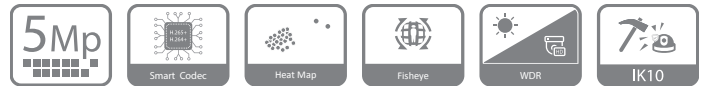
#### Heat Map

Dahua heat map technology is used to display the crowd density and people appearance probability. Display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

#### In Area No.

With advanced stereo image technology and deep leaning algorithm, Dahua In Area No. technology recognizes human targets accurately to count people in area in real-time. You can set people quantity threshold, when the number larger or smaller than the threshold, it triggers linkage. It is applicable in the scene that has limit on people quantity.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- 120dB WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire, people counting in area
- Abnormality detection: Motion detection, video tampering, 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; supports max. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply, easy for installation
- IP67, IK10 protection
- Heat map for people counting. You can adjust the number of people, time threshold to generate a heat map, which can be exported.



### True WDR

With advanced Wide Dynamic Range (120dB WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

### 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  $\pm 30\%$  (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             | 1/2.7"5Megapixel progressive CMOS                 |
| Max. Resolution          | 2592 (H) × 1944 (V)                               |
| ROM                      | 128 MB  |
| RAM                      | 512 MB  |
| Scanning System          | Progressive                                       |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s                     |
| Min. Illumination        | 0.006 Lux@F2.0 (Color, 30IRE)                     |
| S/N Ratio                | > 56 dB   |
| Pan/Tilt/Rotation Range  | Pan: 0°–355°<br>Tilt: 0°–55°<br>Rotation: 0°–360° |

### Lens

|                      |   |                     |                    |                   |
|----------------------|---|---------------------|--------------------|-------------------|
| Lens Type            | Fixed-focal   |                     |                    |                   |
| Mount Type           | M12   |                     |                    |                   |
| Focal Length         | 1.4 mm  |                     |                    |                   |
| Max. Aperture        | F2.0  |                     |                    |                   |
| Field of View        | Horizontal: 180°<br>Vertical: 180°<br>Diagonal: 180°  |                     |                    |                   |
| Iris Type            | Fixed   |                     |                    |                   |
| Close Focus Distance | 0.2 m (0.7 ft)  |                     |                    |                   |
| DORI Distance        | Detect  | Observe             | Recognize          | Identify          |
|                      | 28 m<br>(91.9 ft)   | 11.2 m<br>(36.7 ft) | 5.6 m<br>(18.4 ft) | 2.8 m<br>(9.2 ft) |
|                      | *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. |                     |                    |                   |

### Smart Event

|          |     |
|----------|-----|
| Heat Map | Yes |
|----------|-----|

### Professional, intelligent

|                            |   |
|----------------------------|---|
| IVS (Perimeter Protection) | Tripwire; intrusion   |
| People Counting            | Support people counting in area, and displaying and outputting yearly/monthly/daily reports (matching devices are needed); support people counting in 4 areas |
| Intelligent Search         | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.  |

### Fisheye

|               |  |
|---------------|--|
| Installation  | Ceiling mount; wall mount; ground mount  |
| Decoding Mode | Back-dewarp  |
| Display Mode  | Back-dewarp (software decoding): fisheye view; 360° panoramic view + PTZ; dual-channel 180° panoramic view; fisheye + 2PTZ; fisheye + 3PTZ; fisheye + 4PTZ; 360° panoramic view + 6PTZ; fisheye + 8PTZ; 180° panoramic view; 180° panoramic view + 3PTZ; 180° panoramic view + 4PTZ; 180° panoramic view + 8PTZ; VR mode (panorama; semi-circle; cylinder; asteroid) |

### Video

|                             |   |
|-----------------------------|---|
| Video Compression           | H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)  |
| Smart Codec                 | Smart H.265+/ Smart H.264+  |
| Video Frame Rate            | Main stream (2592 × 1944 @1–25/30 fps)<br>sub stream (704 × 576 @1–25 fps/704 × 480 @1–30 fps)<br>third stream (1280 × 720 @1–25/30 fps)  |
| Stream Capability           | 3 streams   |
| Resolution                  | 5M (2592 × 1944); 3M (2048 × 1536); UXGA (1600 × 1200); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)  |
| Bit Rate Control            | CBR/VBR   |
| Video Bit Rate              | H.264: 3 kbps–8192 kbps<br>H.265: 3 kbps–8192 kbps  |
| Day/Night                   | Color/B/W   |
| BLC                         | Yes   |
| HLC                         | Yes   |
| WDR                         | 120 dB  |
| Scene Self-adaptation (SSA) | Yes   |
| White Balance               | Auto/natural/street lamp/outdoor/manual/regional custom   |
| Gain Control                | Auto/Manual   |
| Noise Reduction             | 3D DNR  |
| Motion Detection            | OFF/ON (4 areas)  |
| Region of Interest (RoI)    | Yes (4 areas)   |
| Privacy Masking             | 4 areas   |
| Audio                       |   |
| Built-in MIC                | Yes   |
| Audio Compression           | PCM; G.711a; G.711Mu; G726  |
| Alarm                       |   |
| Alarm Event                 | No SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; people counting in area; stay alarm; people counting; people No. exception detection; safety exception |
| Network                     |   |
| Network                     | RJ-45 (10/100 Base-T)   |
| SDK and API                 | Yes   |
| Protocol                    | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; 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; Milestone; Genetec; P2P   |
| User/Host                   | 20 (Total bandwidth: 64 M)  |

|                     |  |
|---------------------|--|
| Storage             | FTP; SFTP; Micro SD card (support max. 256 G); NAS |
| Browser             | IE: IE8, IE9 and IE11<br>Chrome<br>Firefox         |
| Management Software | Smart PSS; DSS; DMSS                               |
| Mobile Phone        | IOS; Android                                       |

**Certification**

|               |  |
|---------------|--|
| Certification | 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 |
|---------------|--|

**Port**

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

**Power**

|                   |  |
|-------------------|--|
| Power Supply      | 12V DC/PoE   |
| Power Consumption | Basic power consumption: 3.7W (12V DC); 4.7W (PoE)<br>Max. power consumption (H.265 + intelligent function + WDR): 5.1W (12V DC); 6W (PoE) |

**Environment**

|                      |   |
|----------------------|---|
| Operating Conditions | -30°C to +55°C (-22°F to +131°F)/Less than 95% RH |
| Storage Conditions   | -40°C to +60°C (-40°F to +140°F)                  |
| Protection Grade     | IP67; IK10  |

**Structure**

|              |                                     |
|--------------|-------------------------------------|
| Casing       | Metal                               |
| Dimensions   | 62.0 mm × Φ110.0 mm (2.44" × Φ4.3") |
| Net Weight   | 387 g (0.9 lb)                      |
| Gross Weight | 502 g (1.1 lb)                      |

**Ordering Information**

| Type                   | Model                   | Description  |
|------------------------|-------------------------|--|
| 5MP Camera             | DH-IPC-EB5541P-AS       | 5MP WizMind Fisheye Network CAMERA, PAL            |
|                        | DH-IPC-EB5541N-AS       | 5MP WizMind Fisheye Network CAMERA, NTSC           |
| Accessories (optional) | PFA136                  | Junction Box                                       |
|                        | PFB203W                 | Wall Mount   |
|                        | PFB220C                 | Ceiling Mount                                      |
|                        | PFA106                  | Mount Adapter                                      |
|                        | PFA152-E                | Pole Mount   |
|                        | PFM321D                 | 12V DC 1A Power Adapter                            |
|                        | LR1002-1ET/1EC          | Single-port Long Reach Ethernet over Coax Extender |
| PFM900-E               | Integrated Mount Tester |  |

**Accessories**

**Optional**



PFA136 Junction Box



PFB203W Wall Mount



PFB220C Ceiling Mount



PFA106 Mount Adapter



PFA152-E Pole Mount



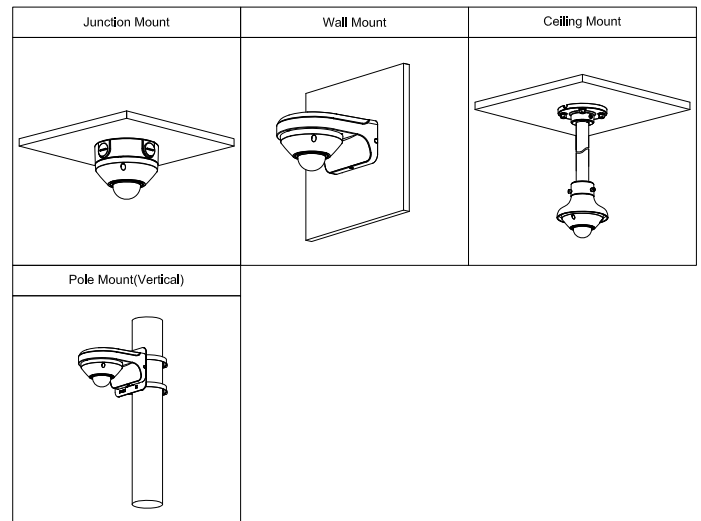
PFM321D 12V DC/1A Power Adapter



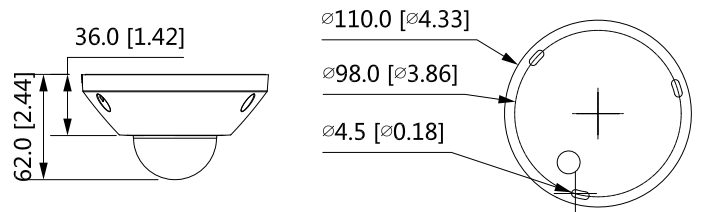
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



**Dimensions (mm[inch])**



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