

# DH-IPC-HFW5241E-Z5E

2MP IR Vari-focal Bullet WizMind Network Camera





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.

### **Face Attributes**

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

### **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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- $\cdot$  ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- $\cdot$  7 mm –35 mm motorized lens
- $\cdot$  2/1 Alarm in/out, 1/1 audio in/out
- $\cdot$  Max. IR LEDs Length 120 m
- · Micro SD memory, IP67, IK10



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



## Wiz Mind | DH-IPC-HFW5241E-Z5E

### **Technical Specification**

| Camera                     |       |  |             |            |            |
|----------------------------|-------|--|-------------|------------|------------|
| Image Sensor               |       | 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS   |             |            |            |
| Max. Resolution            |       | 1920 (H) × 1080 (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       |       | 0.0015 Lux@F1.3  |             |            |            |
| Illumination Distance      |       | Distance up to 120 m (394 ft)  |             |            |            |
| Illuminator On/Off Control |       | Auto/Manual  |             |            |            |
| Illuminator Number         |       | 4(IR LED)  |             |            |            |
| Lens                       |       |  |             |            |            |
| Lens Type                  |       | Motorized vari-focal   |             |            |            |
| Mount Type                 |       | Board-in   |             |            |            |
| Focal Length               |       | 7 mm–35 mm   |             |            |            |
| Max. Aperture              |       | F1.3   |             |            |            |
| Angle of View              |       | H: 33°–10°, V: 19°–5°  |             |            |            |
| Aperture Type              |       | Auto (HALL)  |             |            |            |
| Close Focus Distance       |       | 0.3 m–2.0 m (0.98 ft–6.56 ft)  |             |            |            |
|                            | Lens  | Detect   | Observe     | Recognize  | Identify   |
| DORI Distance              | W     | 131m(430ft)  | 52m(171ft)  | 26m(85ft)  | 13m(43ft)  |
|                            | Т     | 428m(1404ft)   | 171m(561ft) | 86m(282ft) | 43m(141ft) |
| Pan/Tilt/Rotati            | on    |  |             |            |            |
| Pan/Tilt/Rotation Range    |       | Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°  |             |            |            |
| Artificial Intelli         | gence |  |             |            |            |
| Face Detection             |       | Face detection; track; optimization; snapshot; report<br>high quality picture; face enhancement; face exposure;<br>face attribute extract, 6 attributes and 8 expressions:<br>Gender, age, glasses, expressions (anger, calm,<br>happiness, sadness, disgust, surprise, confusion and<br>fear), mask, beard; face matting setting: face, single inch<br>photo; three snapshot methods: real-time snapshot,<br>optimization snapshot, quality priority; face angle filter;<br>optimization time setting |             |            |            |
| Perimeter Protection       |       | Tripwire; intrusion; fast moving (the three functions<br>support the classification and accurate detection<br>of vehicle and human); loitering detection; people<br>gathering; parking detection   |             |            |            |
| People Counting            |       | Support the counting of enter number, leave<br>number, and pass number, and displaying and<br>outputting yearly/monthly/daily reports.<br>Support the counting of number in area, and 4 rules<br>configuration. Count number of people or stay time<br>and link alarm.<br>Support queue management, and 4 rules<br>configuration. Count number of people or stay time  |             |            |            |

#### **General Intelligence** Motion detection, Video tampering , Scene Event Trigger changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Yes Heat Map Video H.265,H.264,H.264B,H.264H, Compression MJPEG (only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Streaming Capability 3 Streams 1080P (1920 × 1080)/1.3 M (1280 × 960)/720P Resolution (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240) Main Stream: 1080P (1 fps-25/30 fps) Sub Stream: D1 (1 fps-25/30 fps) Frame Rate Third Stream: 1080P (1 fps-6 fps) Bit Rate Control CBR/VBR H.264: 32 Kbps-8192 Kbps Bit Rate H.265: 19 Kbps-7424 Kbps Day/Night Auto (ICR)/Color/B/W BLC Mode BLC/HLC/WDR (120 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) Electronic Image Stabilization Yes (EIS) Smart Illumination Yes Defog Yes Flip 0°/90°/180°/270° Mirror Off/On Privacy Masking Off/On (4 Area, Rectangle) Audio G.711a, G.711Mu, AAC, G.726, G.723 Audio Compression Alarm No SD card;SD card full;SD card error;network disconnection; IP conflict; illegal access; motion detection;video tampering;Defocus Detection; scene changing; intrusion; tripwire; aban doned object; missing object; fast moving; parking Alarm Event detection;loitering detection;people gathering;audio detection;people counting;face detection;voltage detection;People counting in area;Stay alarm;People No. exception detection;Queue Management Network Network RJ-45 (10/100Base-T)

configuration. Count number of people or stay time

and link alarm

## Wiz Mind | DH-IPC-HFW5241E-Z5E

| SDK and API          | Yes   |  |  |
|----------------------|---|--|--|
| Protocol             | IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP<br>;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP<br>;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMF                          |  |  |
| Interoperability     | ONVIF (Profile S/Profile G/Profile T), CGI, Milsetone,<br>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,<br>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<br>2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1- |  |  |
| Interface            |   |  |  |
| Audio Interface      | 1/1 channel In/Out  |  |  |
| Alarm                | 2 channel In: 5MA 5V DC<br>1 channel Out: 300MA 12V DC  |  |  |
| Electrical           |   |  |  |
| Power Supply         | DC 12V (±30%), PoE (802.3af)  |  |  |
| Power Consumption    | <10.3W  |  |  |
| Environmental        |   |  |  |
| Operating Conditions | -30° C to +60° C (-22° 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, plastic  |  |  |
| Dimensions           | 273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")   |  |  |
| Net Weight           | 1.11 kg (2.44 lb)   |  |  |
| Gross Weight         | 1.51 kg (3.33 lb)   |  |  |
|                      |   |  |  |

#### **Ordering Information** Part Number Туре Description 2MP IR Vari-focal Bullet WizMind Network DH-IPC-Camera, HFW5241EP-Z5E WDR, PAL 2MP IR Vari-focal Bullet WizMind Network DH-IPC-Camera, HFW5241EN-Z5E WDR, NTSC 2MP camera 2MP IR Vari-focal Bullet WizMind Network IPC-HFW5241EP-Camera, Z5E WDR, PAL 2MP IR Vari-focal Bullet WizMind Network IPC-HFW5241EN-Camera, Z5E WDR, NTSC Accessories PFA152-E Pole mount (optional) PFA121 Junction Box

### Accessories

### **Optional:**



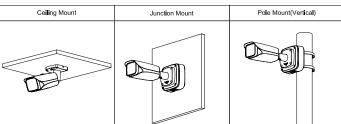


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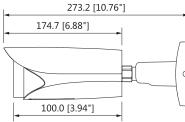


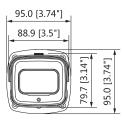
PFA152-E Pole Mount

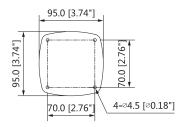
PFA121 ePoE Over Coax Converter Junction Box



### Dimensions (mm[inch])







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