



# DH-IPC-HFW5442H-ZE

4MP 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.

- $\cdot$  4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 fps
- Max. IR distance: 60 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- ePoE, IP67, IK10 protection
- Anti-corrosion coating (optional)
- Supports junction box mount
- SMD Plus



### 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's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

### **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.

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## **Technical Specification**

Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		60 m (196.9 ft) (IR LED)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7 mm–12 mm			
Max. Apertu	ire	F1.8 (Constant)			
Field of View		Horizontal: 107°–44° Vertical: 69°–29° Diagonal: 134°–53°			
Iris Type		Auto			
Close Focus	Distance	W/T: 1.2 m (3.9 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	57.0 m (187.0 ft)	23.0 m (75.5 ft)	11.0 m (36.1 ft)	5.7 m (18.7 ft)
	т	130.7 m (428.8 ft)	52.0 m (170.6 ft)	26.0 m (85.3 ft)	13.0 m (42.7 ft)
Smart Eve	ent	. ,	. ,	. ,	. ,

### Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

# Professional, intelligent

IVS (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
Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting

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		
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)		
Smart Codec	Smart H.265+/H.264+		
Video Frame Rate	Main stream: 2688 × 1520 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps) Sub stream: D1 (1 fps–50/60 fps) Third stream: 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream 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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	140 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Electronic Image Stabilization (EIS)	Yes		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270°		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		
Alarm			
Alarm Event	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; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; voltage detection; people counting in area; stay alarm; people No. exception detection, queue management		
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#### Network

RJ-45 (10/100 Base-T)	
Yes	
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	
IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
20 (Total bandwidth: 88 M)	
FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
IE: IE8 and later Chrome Firefox Safari: Safari 12 and later	
Smart PSS; DSS; DMSS	
IOS; Android	
CE-LVD: EN62368-1, EN60950-22 (optional) 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, UL 50E NEMA Type 4X (optional)	
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FCC: 47 CFR FCC Part 15, Subpart B   UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07, UL   SOE NEMA Type 4X (optional)   1 channel (3.5mm JACK port)   1 channel (3.5mm JACK port)   3 channels in: 5mA 3V–5V DC   2 channels out: 300mA 12V DC   12V DC (±30%)/PoE (802.3af)/ePoE   Basic power consumption: 2.5W (12V DC); 3.3W (PoE)   Max. power consumption (max. stream + intelligent function + IR LED + focus): 9.7W (12V DC); 11.6W (PoE)   -30°C to +60°C (-22°F to +140°F)/Less than 95% RH   -40°C to +60°C (-40°F to +140°F)   IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)   Metal + Plastic   340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7")	

**Ordering Information** 

Туре	Model	Description	
4MP Camera	DH-IPC-HFW5442HP-ZE	4MP Vari-focal Bullet WizMind Network Camera , PAL	
	DH-IPC-HFW5442HN-ZE	4MP Vari-focal Bullet WizMind Network Camera , NTSC	
	IPC-HFW5442HP-ZE	4MP Vari-focal Bullet WizMind Network Camera , PAL	
	IPC-HFW5442HN-ZE	4MP Vari-focal Bullet WizMind Network Camera , NTSC	
Accessories (Optional)	PFA154	Pole Mount	

### Accessories

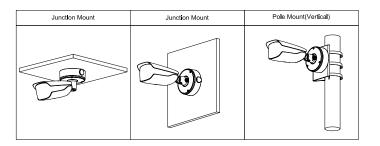
### Optional



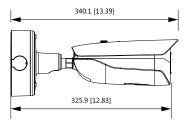


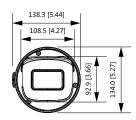
PFA154 Pole Mount

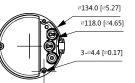
LR1002 ePoE Over Coax Converter



## Dimensions (mm[inch])







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