



# DH-IPC-HFW5442H-ZHE

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.

- 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 DNR, 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, Heater
- · Supports junction box mount













#### **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/weekly/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							Support the counting of enter number, leave number	
Camera								and pass number, and displaying and outputting yearly/ monthly/weekly/daily reports
Image Sensor		1/1.8"4Megapixel progressive CMOS					People Counting	Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm
Max. Resolution		2688 (H) × 1520 (V)						Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm
ROM		128 MB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM		1 GB						videos
Scanning System		Progressive					Video	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Min. Illumination		0.003 Lux @F1.8					Smart Codec	Smart H.265+/H.264+
S/N Ratio		>56 dB					Video Frame Rate	Main stream: $2688 \times 1520$ (1 fps-25/30 fps) $1920 \times 1080$ (1 fps-50/60 fps) Sub stream: D1 (1 fps-50/60 fps) Third stream: $1080p$ (1 fps-25/30 fps)
Illumination Distance		60 m (196.9 ft) (IR LED)						
Illuminator On/Off Control		Auto/Manual					Stream Capability	3 streams
Illuminator Number		4 (IR LED) Pan: 0°-360°					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)
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Bit Rate Control	CBR/VBR
Lens							Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps
Lens Type		Motorized vari-focal					Day/Night	Auto (ICR)/Color/B/W
Mount Type		ф14					BLC	Yes
Focal Length		2.7 mm-12 mm					HLC	Yes
Max. Aperture		F1.8					WDR	140 dB
Field of View		Horizontal: 107°–44° Vertical: 69°–29°					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
		Diagonal: 134	1°–53°				Gain Control	Auto/Manual
Iris Type		Auto					Noise Reduction	3D DNR
Close Focus Distance		W/T: 1.2 m (3.9 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
DORI Distance	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)		Electronic Image Stabilization (EIS)	Yes
	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 Illumination	Yes
Smart Ev	ent						Defog	Yes
IVS		Abandoned object; missing object					Image Rotation	0°/90°/180°/270°
Heat Map		Yes					Mirror	Yes
Professio	nal, intellige	nt					Privacy Masking	4 areas
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					Audio	
							Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
							Alarm	
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					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

Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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; SAMBA; PPPoE; 802.1x; SNMP	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
User/Host	20 (Total bandwidth: 88 M)	
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Browser	IE: IE8 and later Chrome Firefox Safari: Safari 12 and later	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
Certification	CE-LVD: EN62368-1 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	
Port		
Audio Input	1 channel (3.5mm JACK port)	
Audio Output	1 channel (3.5mm JACK port)	
Alarm Input	3 channels in: 5mA 3V–5V DC	
Alarm Output	2 channels out: 300mA 12V DC	
Power		
Power Supply	12V DC (±30%)/PoE (802.3af)	
Power Consumption	<11.6W	
Environment		
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	
Structure		
Casing	Metal + Plastic	
Dimensions	340.1 mm $\times$ 108.5 mm $\times$ 92.9 mm (13.4" $\times$ 4.3" $\times$ 3.7") (L $\times$ W $\times$ H)	
Net Weight	1.5 kg (3.3 lb)	
Gross Weight	2.37 kg (5.2 lb)	

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

## Accessories

## **Optional**





PFA154 Pole Mount

ePoE Over Coax Converter

Junction Mount	Junction Mount	Pole Mount(Vertical)
	9	

# Dimensions (mm[inch])





