

# DH-IPC-HFW5442E-ZE

4MP 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.

- · 1/1.8" 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)
- $\cdot$  WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- $\cdot$  2.7 mm–12.0 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- $\cdot$  Max. IR LEDs Length 50 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-HFW5442E-ZE

#### **Technical Specification**

People Counting

#### Camora

Camera					
Image Sensor		1/1.8" 4Mega	apixel progress	sive scan CMO	S
Max. Resolution		2688 (H) × 1520 (V)			
RAM/ROM		1 GB/128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s			
S/N Ratio		> 56 dB			
Minimum Illumination		0.003 Lux@F1.8			
Illumination Distance		Distance up to 50 m (164 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4(IR LED)			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Board-in			
Focal Length		2.7 mm-12.0 mm			
Max. Aperture		F1.8			
Angle of View		H: 114°–47°, V: 62°–26°			
Aperture Type		Auto			
Close Focus Distance		1.2 m (3.94 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)
	Т	131m(430ft)	52m(171ft)	26m(85ft)	13m(43ft)
Pan/Tilt/Rotat	ion				
Pan/Tilt/Rotatior	n Range	Pan: 0°–360°;	: Tilt: 0°–90°; F	Rotation: 0°–3	60°
Artificial Intelli	igence				
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			
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			

gathering; parking detection

and link alarm.

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

Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm

configuration. Count number of people or stay time

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)		
	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
Frame Rate	Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)		
	Third Stream: 1080P (1 fps-16 fps)		
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)		
Electronic Image Stabilization (EIS)	Yes		
Smart Illumination	Yes		
Defog	Yes		
Flip	0°/90°/180°/270°		
Mirror	Off/On		
Privacy Masking	Off/On (4 Area, Rectangle)		
Audio			
Audio Compression	G.711a, G.711Mu, AAC, 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;aban doned object;missing object;fast moving;parking 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

Gross Weight

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;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P
User/Host	20 Users
Storage	NAS;FTP;SFTP;Dahua Cloud; 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 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
Interface	
Audio Interface	1/1 channel In/Out
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC
Electrical	
Power Supply	DC 12V (±30%), PoE (802.3af)
Power Consumption	<10.9W
Environmental	
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Strorage 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)

Ordering Information						
Туре	Part Number	Description				
4MP camera	DH-IPC- HFW5442EP-ZE	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL				
	DH-IPC- HFW5442EN-ZE	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC				
	IPC-HFW5442EP- ZE	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL				
	IPC-HFW5442EN- ZE	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC				
Accessories (optional)	PFA152-E PFA121	Pole mount Junction Box				

## Accessories

#### **Optional:**







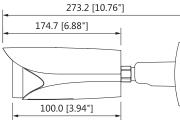
PFA152-E Pole Mount

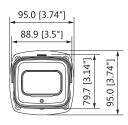
LR1002 ePoE Over Coax Converter

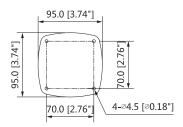
PFA121 Junction Box

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	

### Dimensions (mm[inch])







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1.51 kg (3.33 lb)