



# 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, SVC, SMART H.264 +/H.265+, AI 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, Heater
- Anti-corrosion coating (optional)
- · Supports junction box mount
- SMD 3.0













#### **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 ±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 and pass number, and displaying and outputting yearly/
Camera				Poonlo Counting		monthly/daily reports Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm		
Image Sensor		1/1.8" CMOS					People Counting	
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					Mid -	videos
Scanning System		Progressive					Video	H.265; H.264; H.264H; H.264B; MJPEG (only supported
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Compression	by the sub stream)
Min. Illumination		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)					Smart Codec	Smart H.265+/H.264+  Main stream: 2688 × 1520 (1 fps–25/30 fps) /1920 × 1080 (1 fps–50/60 fps)  Sub stream: D1 (1 fps–50/60 fps)
S/N Ratio		>56 dB						
Illumination Distance		60 m (196.9 ft) (IR LED)					Video Frame Rate	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
Illuminator On/Off Control		Auto/Manual					Stream Capability	to the total encoding capacity.  3 streams
Illuminator N	lumber	4 (IR LED)					Stream Supublify	2688 × 1520; 2560 × 1440; 2304 × 1296; 1080p (1920 ×
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens							Bit Rate Control	CBR/VBR
Lens Type		Motorized vari-focal					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps
Mount Type		ф14					Day/Night	Auto (ICR)/Color/B/W
Focal Length		2.7 mm-12 m	nm				BLC	Yes
Max. Aperture		F1.8					HLC	Yes
		Horizontal: 10	07°–44°				WDR	140 dB
Field of View		Vertical: 69°–29° Diagonal: 134°–53°					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Iris Type		Auto					Gain Control	Auto/Manual
Close Focus I	Distance	W/T: 1.2 m (3.9 ft)					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
DORI	W	57.0 m	23.0 m	11.0 m	5.7 m		Region of Interest (RoI)	Yes (4 areas)
Distance		(187.0 ft) 130.7 m	(75.5 ft) 52.0 m	(36.1 ft) 26.0 m	(18.7 ft) 13.0 m		Electronic Image Stabilization (EIS)	Yes
	Т	(428.8 ft)	(170.6 ft)	(85.3 ft)	(42.7 ft)		Smart Illumination	Yes
Smart Eve	ent						Defog	Yes
IVS		Abandoned object; missing object					Image Rotation	0°/90°/180°/270°
Heat Map		Yes					Mirror	Yes
Profession	nal, intellige	ent					Privacy Masking	8 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  Alarm	PCM; G.711a; G.711Mu; G.726; G.723
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

management

Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
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			
Protocol	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			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P			
User/Host	20 (Total bandwidth: 80 M)			
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS			
Browser	IE: IE8 and later Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	IOS; Android			
Certification				
Certification	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)			
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)/ePoE			
Power Consumption	Basic power consumption: 2.5W (12V DC); 3.8W (PoE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 9.7W (12V DC); 12.5W (PoE) Heat power consumption: 3.3W (12V DC); 5.5W (PoE)			
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, Anti-Corrosion Protection: NEMA 4X (optional)			
Structure				
Casing	Metal + Plastic			
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7") (L × W × 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	PFA154	Pole Mount					
(Optional)	TF-P100	MicroSD Memory Card					

# Accessories

# **Optional**





PFA154 Pole Mount

TF-P100 MicroSD Memory Card

Junction Mount	Junction Mount	Pole Mount(Vertical)
	9	

# Dimensions (mm[inch])





