

DH-IPC-HFW5442E-SE

4MP IR Fixed-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.

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.

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.

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.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 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.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 protection.
- SMD 3.0











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 cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, 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.

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.

Technica	l Specification	on						Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face
Camera				Face Detection	exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot,			
Image Sensor		1/1.8" CMOS					optimization snapshot and quality first); face angle filter; optimization time setting	
Max. Resolution		2688 (H) × 1520 (V)				People Counting	Tripwire people counting, generating and exporting report (day/month); people counting in area; queue management; 4 rules can be set for tripwire, people counting in area and queue management.	
ROM		128 MB						
RAM	RAM						6 .6 .	Work together with Smart NVR to perform refine
Scanning System		Progressive				Smart Search	intelligent search, event extraction and merging to event videos	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video		
Min. Illumin	Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
S/N Ratio		>56 dB				Smart Codec	Smart H.265+; Smart H.264+	
Illumination	n Distance	2.8 mm: 30 m (98.43 ft) (IR) 3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR)				Al Coding	AI H.265; AI H.264 Main stream: 2688×1520@(1–25/30 fps) Sub stream: D1@(1–25/30 fps)	
Illuminator	On/Off Control	Auto; manual				Video Frame Rate	Third stream: 1080p @(1–25/30 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.	
Illuminator	Illuminator Number		2 (IR LED)					
Pan/Tilt/Ro	tation Range	Pan: 0°–360° Tilt: 0°–90°				Stream Capability	3 streams	
Pan/Tilt/Rotation Range Lens		Rotation: 0°–360°				Resolution	2688 × 1520; 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)	
Lens Type		Fixed-focal				Bit Rate Control	CBR/VBR	
Lens Mount		M12				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Focal Lengtl	h	2.8 mm; 3.6 mm; 6 mm				Day/Night	Auto(ICR)/Color/B/W	
Max. Aperti	Max. Aperture		F1.6				BLC	Yes
Field of Viev	Field of View		2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134° 3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104° 6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65°				HLC	Yes
Iris Control		Fixed				WDR	120 dB	
		2.8 mm: 0.6 m (1.97 ft)				Scene Self-adaptation (SSA)	Yes	
Close Focus	Distance	3.6 mm: 1.2 m (3.94 ft) 6 mm: 2.5 m (8.20 ft)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto; manual
DORI	2.8 mm	38.6 m (126.64 ft)	15.4 m (50.52 ft)	7.7 m (25.26 ft)	3.9 m (12.80 ft)		Noise Reduction	3D NR
Distance	3.6 mm	55.2 m (181.10 ft)	22.1 m (72.51 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
	6 mm	82.8 m	33.1 m	16.6 m	8.3 m		Region of Interest (RoI)	Yes (4 areas)
		(271.65 ft)	(108.60 ft)	(54.46 ft)	(27.23 ft)		Defog	Yes
Smart Event		Abandoned object; missing object				Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 4M resolution and lower)	
		Yes				Mirror	Yes	
Heat Map Professional, intellige						Privacy Masking	8 areas	
FTOTESSIO	mai, intellige		pwire, fast mov	ving (the three	functions		Alarm	
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering	
SMD 3.0		Less false alarm, longer detection distance					detection; people gathering; parking detection; scene changing; SMD; people counting in area; stay detection;	

people counting; security exception

Network		
Network Port	RJ-45 (10/100 Base-T)	
Wi-Fi	NA	
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	
Network 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; P2P	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Browser	IE: IE 8 and later Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	iOS; Android	
Certification		
	CE-LVD: EN60950-1;	

	CE-LVD
	CE-EMO
	2014/3
Certifications	FCC· 47

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

Power

Power Supply	12 VDC/PoE (802.3af)/ePoE		
Power Consumption	Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 5.7 W (12 VDC); 6.8 W (PoE)		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤ 95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		

Structure

Casing	Metal + plastic		
Product Dimensions	179.9 mm × 70 mm × 70 mm (7.08" × 2.76" × 2.76") (L × W × H)		
Net Weight	470 g (1.04 lb)		
Gross Weight	590 g (1.30 lb)		

Ordering Information			
Туре	Model	Description	
23.40.6	DH-IPC-HFW5442EP-SE	4MP IR Fixed-focal Bullet WizMind Network Camera, PAL	
2MP Camera	DH-IPC-HFW5442EN-SE	4MP IR Fixed-focal Bullet WizMind Network Camera, NTSC	
	PFA152-E	Pole Mount Bracket	
	PFA151	Corner Mount Bracket	
Accessories	PFA121	Junction box	
(Optional)	PFM321D	12 VDC 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	

Accessories

Optional:



PFA152-E Pole Mount Bracket



PFA151 Corner Mount Bracket



PFA121 Junction box



PFM321D 12 VDC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

