



# DH-IPC-HFW5241E-SE

# 2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 2 MP (1920 × 1080)@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











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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	Specification	on						Face detection; track; snapshot; snapshot optimization;
Camera				Face Detection	optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting			
Image Sensor		1/2.8" CMOS						
Max. Resolution		1920 (H) × 1080 (V)					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.
ROM		128 MB						
RAM		512 MB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						Count number of people or stay time and link alarm.
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
S/N Ratio		>56 dB					Video	
Illumination	Distance	50 m (164.04 ft) (IR)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Illuminator C	On/Off Control	Auto; manual					Smart Codec	Smart H.265+; Smart H.264+
Illuminator Number		2 (IR LED)					Al Coding	AI H.265; AI H.264
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Frame Rate	Main stream: 1080p@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) 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.
Lens Type		Fixed-focal					Stream Capability	3 streams
Lens Mount		M12					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Focal Length		2.8 mm; 3.6 mm; 6 mm						× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Aperture		F1.6					Bit Rate Control	CBR/VBR
Field of View		2.8 mm: Horizontal: 106°; Vertical: 57°; Diagonal: 126° 3.6 mm: Horizontal: 87°; Vertical: 46°; Diagonal: 104°					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
		6 mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60°					Day/Night	Auto (ICR)/Color/B/W
Iris Control		Fixed					BLC	Yes
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.2 m (3.94 ft)					HLC	Yes
	Long	6 mm: 2.5 m		Di	(donett.		WDR	120 dB
	Lens	Detect 38.6 m	Observe 15.4 m	Recognize 7.7 m	Identify 3.9 m		Scene Self-adaptation (SSA)	Yes
DORI Distance	2.8 mm	(126.64 ft) 55.2 m	(50.52 ft)	(25.26 ft) 11.0 m	(12.80 ft) 5.5 m		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	3.6 mm	(181.10 ft)	(72.51 ft)	(36.09 ft)	(18.04 ft)		Gain Control	Auto; manual
	6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)		Noise Reduction	3D NR
Smart Event							Motion Detection	OFF/ON (4 areas, rectangular)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Heat Map		Yes					Defog	Yes
Professional, intelligent				Image Rotation	0°/90°/180°/270°			
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					Mirror	Yes
							Privacy Masking	8 areas
SMD 3.0	SMD 3.0		rm, longer det	ection distance	2		Alarm	

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 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	
Certifications	CE-LVD: EN60950-1; 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
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
Net Weight	× W × H) 470 g (1.04 lb)
Gross Weight	590 g (1.30 lb)
GIOGG VVCIBIIL	220 B (T.30 ID)

Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-HFW5241EP-SE	2MP IR Fixed-focal Bullet WizMind Network Camera, PAL			
	DH-IPC-HFW5241EN-SE	2MP 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			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

# Accessories

# Optional:



PFA152-E Pole Mount Bracket



PFA151 Corner Mount Bracket



PFA121 Junction box



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])

