

DH-IPC-HFW5442T-SE

4MP IR Fixed-focal Bullet WizMind Network Camera



Wiz Mind

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 and IK10 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, 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.

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Technical Specification

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Camera						
Image Sensor		1/1.8" CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination 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)				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount	Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm				
Max. Aperture		F1.6				
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°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.2 m (3.94 ft) 6 mm: 2.5 m (8.20 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	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)	
	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)	
	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)	
Smart Event						
IVS		Abandoned object; missing object				

Face Detection	Face detection; track; snapshot; snapshot optimization; 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		
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.		
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 2688×1520@(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.		
Stream Capability	3 streams		
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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto;Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)		
Mirror	Yes		
Privacy Masking	8 areas		
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		

IVS	Abandoned object; missing object			
Heat Map	Yes			
Professional, intelligent				
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			
SMD 3.0	Less false alarm, longer detection distance			

SMD 3.0

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Network

Gross Weight

Network				
Network Port	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			
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): 7.1 W (12 VDC); 8.4 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; IK10			
Structure				
Casing	Metal			
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × H)			
Net Weight	815 g (1.80 lb)			

1080 g (2.38 lb)

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HFW5442TP-SE	5MP IR Fixed-focal Bullet WizMind Network Camera, PAL		
	DH-IPC-HFW5442TN-SE	5MP IR Fixed-focal Bullet WizMind Network Camera, NTSC		
	PFA135	Junction box		
	PFA130-E	Junction box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM321D	12 VDC 1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		

Accessories





PFA135





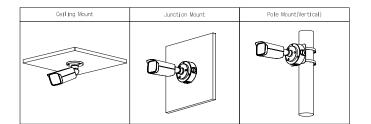
PFA152-E Pole Mount Bracket







PFM900-E Integrated Mount Tester









PFA130-E

Junction

box



Extender

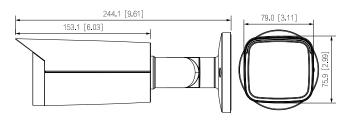
LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax

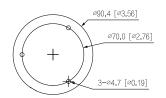


www.dahuasecurity.com

12 VDC 1A Power Adapter

Dimensions (mm[inch])





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