

DH-IPC-HFW5442T-ASE

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.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; 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.



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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.

Technical Specification

Camera

Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128MB			
RAM		512MB			
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		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		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)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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					
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					
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 fps-25/30 fps) /1920 × 1080 (1 fps-50/60 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	140 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)					

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Mirror	Yes					
Privacy Masking	8 areas					
Audio						
Audio Compression	PCM; G.711a; G.711Mu; 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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception					
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					
Port						
Audio Input	1 channel (RCA port)					
Audio Output	1 channel (RCA port)					
Alarm Input	1 channel in: 5 mA 3–5 VDC					
Alarm Output	1 channel out: 300 mA 12 VDC					
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)		
Gross Weight	1080 g (2.38 lb)		

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW5442TP-ASE	4MP IR Fixed-focal Bullet WizMind Network Camera, PAL		
	DH-IPC-HFW5442TN-ASE	4MP IR Fixed-focal Bullet WizMind Network Camera, NTSC		
Accessories	PFA135	Junction Box		
	PFA130-E	Junction Box		
	PFA152-E	Pole Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	РҒМ900-Е	Integrated Mount Tester		
	TF-P100/256G	MicroSD Memory Card		

Accessories

Optional:



box

PFM321D

12 VDC 1A Power

Adapter



Junction

box

PFM900-E

Integrated

Mount Tester

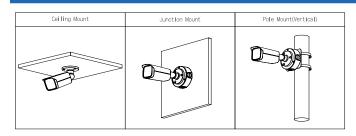
PFA152-E Pole Mount Bracket



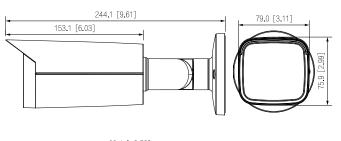
TF-P100/256G MicroSD Memory Card

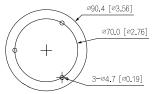


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Dimensions (mm[inch])





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