



# DH-IPC-HFW5241T-SE

2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- 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 80 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** Camera 1/2.8" CMOS Image Sensor Max. Resolution 1920 (H) × 1080 (V) ROM 128 MB RAM 512 MB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) Min. Illumination 0 lux (Illuminator on) S/N Ratio >56 dB Illumination Distance 80 m (262.47 ft) (IR) Illuminator On/Off Control Auto;Manual Illuminator Number 4 (IR LED) Pan: 0°-360° Pan/Tilt/Rotation Range Tilt: 0°-90° Rotation: 0°-360° Lens Fixed-focal Lens Type M12 Lens Mount 2.8 mm; 3.6 mm; 6 mm; 8 mm; 12 mm Focal Length Max. Aperture F1.6 2.8 mm: Horizontal: 106°; Vertical: 57°; Diagonal: 126° 3.6 mm: Horizontal: 87°; Vertical: 46°; Diagonal: 104° 6 mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60° 8 mm: Horizontal: 41°; Vertical: 23°; Diagonal: 47° Field of View 12 mm: Horizontal: 26°; Vertical: 14°; Diagonal: 30° Iris Control Fixed 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.2 m (3.94 ft) Close Focus Distance 6 mm: 2.5 m (8.20 ft) 8 mm: 4 m (13.12 ft) 12 mm: 8.6 m (28.22 ft) Lens Detect Observe Recognize Identify 38.6 m 15.4 m 7.7 m 3.9 m 2.8 mm (126.64 ft) (50.52 ft) (25.26 ft) (12.80 ft) 5.5 m 55.2 m 22.1 m 11.0 m 3.6 mm (181.10 ft) (72.51 ft) (36.09 ft) (18.04 ft) DORI Distance 82.8 m 33.1 m 16.6 m 8.3 m 6 mm (271.65 ft) (108.60 ft) (54.46 ft) (27.23 ft) 110.3 m 44.1 m 22.1 m 11.0 m 8 mm (361.87 ft) (144.69 ft) (72.50 ft) (41.99 ft) 172.4 m 69.0 m 34.5 m 17.2 m 12 mm (565.62 ft) (226.38 ft) (113.19 ft) (56.43 ft) Smart Event IVS Abandoned object; missing object

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	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. Count number of people or stay time and link alarm.
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: 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.
Stream Capability	3 streams
Resolution	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°
Mirror	Yes

Professional, intelligent

Yes

Heat Map

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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	
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: EN62368-1; 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: 1.7 W (12 VDC); 2.5 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ): 6.9 W (12 VDC); 8.3 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	
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × H)	
NI-+ 14/- :		
Net Weight	815 g (1.80 lb)	

Ordering Information			
Туре	Model	Description	
2MP Camera	DH-IPC-HFW5241TP-SE	2MP IR Fixed-focal Bullet WizMind Network Camera, PAL	
	DH-IPC-HFW5241TN-SE	2MP IR Fixed-focal Bullet WizMind Network Camera, NTSC	
Accessories (Optional)	PFA135	Junction box	
	PFA130-E	Junction box	
	PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

#### Accessories

Optional:



PFM321D

12 VDC 1A Power

Adapter





PFA152-E

PFA135 Junction box

PFA130-E Junction box

PFM900-E

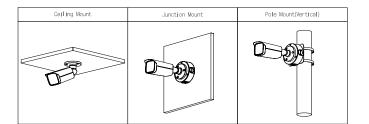
Integrated

Mount Tester

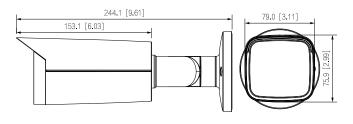


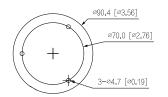


TF-P100 MicroSD Memory Card



#### Dimensions (mm[inch])





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