

DH-IPC-HFW5241T-ASE

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, IVSS,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

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

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.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

* The parameters and datasheets below can only be applied to 5241-ASE-S3 series.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920×1080) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 80 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.



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 reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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 work normally 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 Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes Camera and 8 expressions; face snapshot set as face, one-Face Detection Image Sensor 1/2.8" CMOS inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); 1920 (H) × 1080 (V) face angle filter; optimization time setting Max. Resolution Tripwire people counting, generating and exporting ROM 4 GB report (day/week/month/year); people counting in area **People Counting** and queue management, generating and exporting RAM 1 GB report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management. Scanning System Progressive **Electronic Shutter Speed** Auto/Manual 1/3 s-1/100,000 s Heat Map Yes 0.0007 lux@F1.6 (Color, 30 IRE) Motor vehicle, non-motor vehicle, face, human body Min. Illumination 0.0004 lux@F1.6 (B/W, 30 IRE) detection; track; snapshot; snapshot optimization; optimal face snapshot upload. 0 lux (Illuminator on) Motor vehicle attributes: vehicle type, vehicle color, S/N Ratio >56 dB vehicle logo and other attributes : seatbelt, smoking, calling. Video Metadata Illumination Distance Up to 80 m (262.47 ft) (IR) Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and Illuminator On/Off Control Auto; Manual color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face Illuminator Number 4 (IR LED) mask and beard. Pan: 0°-360° Work together with Smart NVR to perform refine Tilt. 0°-90° Angle Adjustment Smart Search intelligent search, event extraction and merging to event Rotation:0°-360° videos Lens **Smart Sound Detection** Yes Lens Type Fixed-focal Video M12 Lens Mount H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) 2.8 mm; 3.6 mm; 6 mm; 8 mm Focal Length Smart Codec Smart H.265+: Smart H.264+ Max. Aperture F1.6 AI Coding AI H.265; AI H.264 2.8 mm: H: 106°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44°; D: 105° Main stream: 1080p@1-25/30 fps) Field of View 6 mm: H: 54°; V: 29°; D: 63° Sub stream: D1@(1-25/30 fps) 8 mm: H: 42°; V: 23°; D: 47° Third stream: 1080p@(1-25/30 fps) Fourth stream: 720p@(1-25/30 fps) Video Frame Rate Iris Control Fixed *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected 2.8 mm: 0.7 m (2.30 ft) to the total encoding capacity. 3.6 mm: 1.3 m (4.27 ft) **Close Focus Distance** 6 mm: 2.6 m (8.53 ft) Stream Capability 4 streams 8 mm: 3.8 m (12.47 ft) 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 Detect Observe Recognize Identify Lens Resolution × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) 43.9 m 17.5 m 8.8 m 4.4 m 2.8 mm (144.03 ft) (57.41 ft) (28.87 ft) (14.44 ft) Bit Rate Control CBR/VBR 58.9 m 23.6 m 11.8 m 5.9 m DORI 3.6 mm (193.24 ft) (77.43 ft) (38.71 ft) (19.36 ft) H.264: 32 kbps-12032 kbps Distance Video Bit Rate H.265: 12 kbps-7424 kbps 85.5 m 34.2 m 17.1 m 8.6 m 6 mm (280.51 ft) (112.20 ft) (28.22 ft) (56.10 ft) Day/Night Auto(ICR)/Color/B/W 103.7 m 41.5 m 20.7 m 10.4 m 8 mm (340.22 ft) (136.15 ft) (67.91 ft) BLC Yes (34.12 ft) Intelligence HIC Yes Intrusion, tripwire, fast moving (the three functions WDR 120 dB

IVS (Perimeter Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection
Smart Object Detection	Smart abandoned object; smart missing object
SMD 3.0	Less false alarm, longer detection distance
AI SSA	Yes



Scene Self-adaptation

White Balance

Gain Control

Noise Reduction

(SSA)

Yes

custom

Auto

3D NR

Auto; natural; street lamp; outdoor; manual; regional

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Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; 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; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5 mA 3V–5 VDC

Alarm Output	1 channel out: wet contact, 300mA 12V DC		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 8.3 W (12 VDC); 9.8 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)		
Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67; IK10		
Structure			
Casing Material	Metal		
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × H)		
Net Weight	0.82 kg (1.81 lb)		
Gross Weight	1.08 kg (2.38 lb)		

Ordering Information

Туре	Model	Description
2MP Camera	DH-IPC-HFW5241T-ASE	2MP IR Fixed-focal Bullet WizMind Network Camera
	IPC-HFW5241T-ASE	2MP IR Fixed-focal Bullet WizMind Network Camera
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1 A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card



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Accessories

Optional:



PFA130-E

PFM900-E

Integrated

Mount Tester

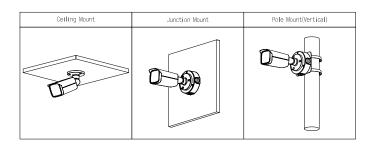
Water-proof Junction Box

PFA152-E Pole Mount Bracket





TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

