



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							Smart Object Detection	Smart abandoned object; smart missing object
Camera							SMD	SMD 3.0
Image Sensor		1/2.8" CMOS				AcuPick	Uses deep learning algorithms and works with backend devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	
Max. Resolution		1920 (H) × 1080 (V)						
ROM		4 GB					AISSA	Yes
RAM		1 GB						Face detection; track; snapshot; snapshot optimization;
Scanning System		Progressive				Face Detection	optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire,
Illumination Distance		Up to 80 m (262.47 ft) (IR)						
Illuminator On/Off Control		Auto; Manual						people counting in area and queue management.
Illuminator	Number	4 (IR LED)					Heat Map	Yes
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90° Rotation:0°-360°					Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking,
Lens								calling. Non-motor vehicle attributes: type, color, number of
Lens Type		Fixed-focal						people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Lens Mount		M12						
Focal Lengtl		2.8 mm; 3.6 mm; 6 mm; 8 mm					Smart Search	Work together with Smart NVR to perform refine
Max. Aperti	ure	F1.6						intelligent search, event extraction and merging to event videos
Field of Viev	N	2.8 mm: H: 106°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44°; D: 105°					Smart Sound Detection	Yes
		6 mm: H: 54°; V: 29°; D: 63° 8 mm: H: 42°; V: 23°; D: 47°					Video	
Iris Control		Fixed					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)					·	by the sub stream)
Close Focus Distance		6 mm: 2.6 m (8.53 ft) 8 mm: 3.8 m (12.47 ft)					Smart Codec	Smart H.265+; Smart H.264+
	Lens	Detect	Observe	Recognize	Identify		Al Coding	AI H.265; AI H.264
	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		Video Frame Rate	Main stream: 1080p@1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)			
	6 mm	85.5 m	34.2 m	17.1 m	8.6 m			to the total encoding capacity.
DORI Distance	Ollilli	(280.51 ft)	(112.20 ft)	(56.10 ft)	(28.22 ft) 10.4 m		Stream Capability	4 streams
	8 mm	103.7 m (340.22 ft)	41.5 m (136.15 ft)	20.7 m (67.91 ft)	(34.12 ft)		Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
		*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.					Resolution	(352 × 288/352 × 240)
							Bit Rate Control	CBR/VBR
commissioni		t function distances, refer to installation and ng manual/project design tool.					Video Bit Rate	H.264: 32 kbps–12032 kbps H.265: 12 kbps–7424 kbps
Intelligen	ice						Day/Night	Auto(ICR)/Color/B/W
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					BLC	Yes
							HLC	Yes
		garriering, and parking detection						

WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes (only 2.8mm/3.6mm supports)
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	
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.	
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	

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

0.82 kg (1.81 lb) 1.08 kg (2.38 lb)

244.1 mm \times 79.0 mm \times 75.9 mm (9.61" \times 3.11" \times 2.99") (L \times W \times H)

Product Dimensions

Net Weight

Gross Weight

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



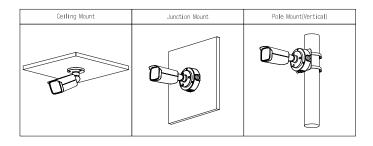
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

