



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 Al ISP 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-ISP

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

Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

* 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. 1 TB 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.

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 ±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						Uses deep learning algorithms and works with
Max. Resolution		1920 (H) × 1080 (V)					AcuPick	back-end devices to accurately match targets, such as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate targets.
ROM		4 GB						
RAM		1 GB					AISSA	Yes
Scanning System		Progressive						Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Face Detection	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
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						Tripwire people counting, generating and exporting
Illumination Distance		Up to 80 m (262.47 ft) (IR)					People Counting	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, people counting in area and queue management.
Illuminator On/Off Control		Auto; Manual						
Illuminator N	Number	4 (IR LED)					Heat Map	Yes
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90° Rotation:0°-360°						Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
Lens								Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking,
Lens Type		Fixed-focal					Video Metadata	calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat.
Lens Mount		M12						Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Focal Length	1	2.8 mm; 3.6 mm; 6 mm; 8 mm						
Max. Aperture		F1.6 2.8 mm: H: 106°; V: 56°; D: 127°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Field of View	I	3.6 mm: H: 88°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63° 8 mm: H: 42°; V: 23°; D: 47°					Smart Sound Detection	Yes
Iris Control		Fixed					Video	
		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported 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)			
DORI	6 mm	85.5 m (280.51 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.6 m (28.22 ft)			to the total encoding capacity.
Distance	8 mm	103.7 m (340.22 ft)	41.5 m (136.15 ft)	20.7 m (67.91 ft)	10.4 m (34.12 ft)		Stream Capability	4 streams
	(EN-62676-4 video to dist	ct, Observe, R I) for defining inguish persoi	the ability of a	a person view within a cover	ing the ed area. The		Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
	For intelliger	numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and					Bit Rate Control	CBR/VBR
commissioni		ing manual/project design tool.					Video Bit Rate	H.264: 32 kbps–12032 kbps H.265: 12 kbps–7424 kbps
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions					Day/Night	Auto(ICR)/Color/B/W
		support the classification and accurate detection of vehicle, animal and human); loitering detection, people gathering parking detection. Supports long-distance					BLC	Yes
			gathering, parking detection. Supports long- distance mode. Supports self-learning, it filters out false alarms.				HLC	Yes

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; scere 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; Auto Register		
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); 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		
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; 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 wi 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

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	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			

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



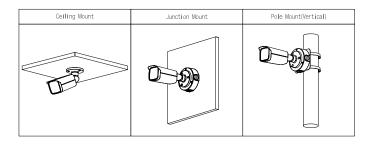
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

