

DH-IPC-HFW5442T-ASE

4MP 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 5442-ASE-S3 series.
- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520) @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.

Wiz Mind | DH-IPC-HFW5442T-ASE

Technical Specification								Face detection; track; snapshot; snapshot optimization;
Camera				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.			
Image Sensor		1/1.8" CMOS						
Max. Resolution		2688 (H) × 1520 (V)						
ROM		4 GB					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, people counting is area and usuae management
RAM		1 GB						
Scanning System		Progressive					Heat Map	people counting in area and queue management. Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						Motor vehicle, non-motor vehicle, face, human body
Min. Illumination		0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Metadata	detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of 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.
S/N Ratio		>56 dB						
Illumination Distance		Up to 80 m (262.47 ft) (IR)						
Illuminator On/Off Control		Auto;Manual						
Illuminator Number		4 (IR LED) Pan: 0°-360°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°					Smart Sound Detection	Yes
Lens							Video	
Lens Type		Fixed-focal					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Mount		M12					Smart Codec	Smart H.265+; Smart H.264+
Focal Length		2.8 mm; 3.6 mm; 6 mm					AI Coding	AI H.265; AI H.264
Max. Aperture Field of View		F1.6 2.8 mm: H: 112°; V: 58°; D: 139° 3.6 mm: H: 88°; V: 50°; D: 102° 6 mm: H: 61°; V: 35°; D: 69°					Video Frame Rate	Main stream: 2688 × 1520@(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
Iris Control		Fixed					Stream Capability	to the total encoding capacity. 4 streams
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.5 m (4.92 ft) 6 mm: 3.0 m (9.84 ft)					Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
	Lens	Detect	Observe	Recognize	Identify		Dit Data Cantral	480); VGA (640 × 480); CIF (352 × 288/352 × 240)
DORI	2.8 mm	61.5 m (201.77 ft)	24.6 m (80.71 ft)	12.3 m (40.35 ft)	6.2 m (20.34 ft)		Bit Rate Control Video Bit Rate	CBR/VBR H.264: 32 kbps–16384 kbps
Distance	3.6 mm	67.6 m (221.78 ft)	27.0 m (88.58 ft)	13.5 m (44.29 ft)	6.8 m (22.31 ft)			H.265: 12 kbps-11008 kbps
	6 mm	96.6 m	38.6 m	19.3 m	9.7 m		Day/Night	Auto(ICR)/Color/B/W
Intolligon		(316.93 ft)	(126.64 ft)	(63.32 ft)	(31.82 ft)		BLC	Yes
Intelligen	ce						HLC	Yes
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					WDR Scene Self-adaptation	140 dB Yes
							(SSA) White Balance	Auto; natural; street lamp; outdoor; manual; regional
Smart Object Detection		Smart abandoned object; smart missing object						custom
SMD 3.0		Less false alarm, longer detection distance					Gain Control	Auto
AI SSA		Yes					Noise Reduction	3D NR
							Motion Detection	OFF/ON (4 areas, rectangular)

Wiz Mind | DH-IPC-HFW5442T-ASE

Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) 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; 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, 5mA 3V–5V DC		
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)				

Ord	lering	Information

Туре	Model	Description	
4MP	DH-IPC-HFW5442T-ASE	4MP IR Fixed-focal Bullet WizMind Network Camera	
Camera	IPC-HFW5442T-ASE	4MP 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	
	РҒМ900-Е	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Wiz Mind | DH-IPC-HFW5442T-ASE

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFM900-E



Integrated Mount Tester



PFA152-E Pole Mount Bracket

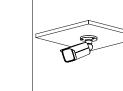
PFM321D

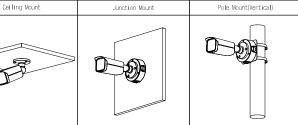
12 VDC 1 A Power

Adapter

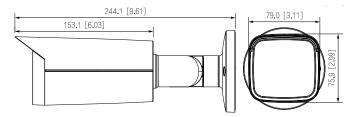


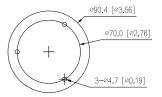
TF-P100 MicroSD Memory Card





Dimensions (mm[inch])





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