



DH-IPC-HF5442F-ZE

4MP Box 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-Z-S3 series.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4MP (2688×1520) @25/30 fps.
- 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: 2 in, 2 out; audio: 2 in, 1 out; 485; BNC; supports max. 512 GB Micro SD card, built-in MIC.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- 12 VDC/24 VAC/PoE power supply; ePoE.
- 12 VDC power output, and max. current 165 mA, easy for installation.
- 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 (Wide Voltage)

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 Specificati	on	Al Coding	AI H.265; AI H.264
Camera		C	, Main stream: 2688 × 1520 (1 fps–25/30 fps) /1920 ×
Image Sensor	1/1.8" CMOS	Video Frame Rate	1080 (1 fps–50/60 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 to the total encoding capacity.
Max. Resolution	2688 (H) × 1520 (V)		
ROM	4 GB		
RAM	1 GB	Stream Capability	4 streams
Scanning System	Progressive	,	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 ×
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	Resolution	1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Min. Illumination	With 10mm-40mm lens: 0.0006 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE)	Bit Rate Control	480); VGA (640 × 480); CIF (352 × 288/352 × 240) CBR/VBR
S/N Ratio	>56 dB	Video Bit Rate	H.264: 32 kbps–16384 kbps
Lens			H.265: 12 kbps–11008 kbps
Lens Mount	C/CS	Day/Night	Auto(ICR)/Color/B/W
Intelligence		BLC	Yes
memgenee	Intrusion tripuire feet maying /the three functions	HLC	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection	WDR	140 dB
,	of vehicle and human); loitering detection, people gathering, and parking detection	Scene Self-adaptation (SSA)	Yes
Smart Object Detection	Smart abandoned object; smart missing object	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
SMD 3.0	Less false alarm, longer detection distance	Gain Control	Auto
AI SSA	Yes	Noise Reduction	3D NR
	Face detection; track; snapshot; snapshot optimization; 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	Motion Detection	OFF/ON (4 areas, rectangular)
Face Detection		Region of Interest (RoI)	Yes (4 areas)
		Image Stabilization	Electronic Image Stabilization (EIS)
	Tripwire people counting, generating and exporting	Defog	Yes
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.	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 \times 1520) resolution and lower)
		Mirror	Yes
Heat Map	Yes	Privacy Masking	8 areas
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, 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.	Audio	
		Built-in MIC	Yes
		Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
		Alarm	
			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; peop number error detection; queue people number alarm;
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Alarm Event	
Smart Sound Detection	Yes		queue time alarm; security exception; defocus detection
Video		Network	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Network Port	RJ-45 (10/100 Enhancement Base-T)
Smart Codec	Smart H.265+; Smart H.264+	SDK and API	Yes



Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; Qo5; 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				
RS-485	1 (baud rate range:1200 bps–115200 bps)			
Audio Input	2 channels (3.5mm JACK port)			
Audio Output	1 channel (3.5mm JACK port)			
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC			
Alarm Output	2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC			
Analog Output	1 channel (CVBS output: BNC)			
Power				
Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE			
Power Consumption	Basic: 5.2 W (12 VDC); 5.3 W (24 VAC); 5.6 W (PoE) Max. (H.265+ WDR+ Intelligence on): 9.2 W (12 VDC); 10.7 W (24 VAC); 11.0 W (PoE)			
Environment				
Operating Temperature	−30 °C to +60 °C (−22 °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			
Structure				
Casing Material	Metal			
Product Dimensions	161.6 mm × 86.8 mm × 74.0 mm (6.36" × 3.42" × 2.91") (L × W × H)			
Net Weight	0.76 kg (1.68 lb)			
Gross Weight	0.98 kg (2.16 lb)			

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HF5442F-ZE	4MP Box WizMind Network Camera		
	IPC-HF5442F-ZE	4MP Box WizMind Network Camera		
	PFB121W	Wall Mount Bracket		
	PFB110W	Ceiling Mount Bracket		
	DH-PFL1040-A12PE	10-40mm Motorized Vari-Focal Lens		
Accessories (Optional)	PFH610V Series	Housings		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFB110W Ceiling Mount Bracket



DH-PFL1040-A12PE 10-40mm Motorized Vari-Focal Lens







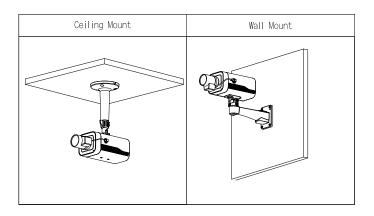
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

