



DH-IPC-HF5541F-ZE

5MP 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 Al 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-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 5541-Z-S3 series.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 5MP (2960×1668) @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.
- 24 VAC/12 VDC/PoE power supply; ePoE.
- 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

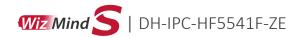
Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious 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.



Min. Illumination Min. Dimen. 40 mm lens Min. Dimen. 40 mm lens Min. Dimen. 40 mm lens D	Technical Specification		Video	
Mask Resolution	Camera		Video Compression	
Max. Resolution 2460 (M) + 1668 (M) AL Coding AL Coding AL HADD, AL HADD RAM 4 686 1.00 All Coding All HADD, AL PACE (M)	Image Sensor	1/2.7" CMOS	Smart Codec	
ROM	Max. Resolution	2960 (H) × 1668 (V)	Al Coding	
Standing System Frequency Fine Certonic Shutter Speed Auth/Manual / 3 v - 1/100,000 s Min. Illumination Ord 30 man - 0 man face Codes used 21 2 (older 30 (15) CODES langer 12 (older 30	ROM	4 GB		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
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Min. Illumination Min. Dimen. 40 mm lens Min. Dimen. 40 mm lens Min. Dimen. 40 mm lens D	Scanning System	Progressive		
Min. Illumination 0.0008 lug9f 1.2 (200, 2018E) 50/N Ratio >>6 40 Nome	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		
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Intelligence Video Bir Rate H.264.32 kbps-16386 kbps; H.265.12 kbps-11776 kbps	Lens			
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Acupick devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets. Al SSA Yes Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expersations; for expansion stargets; (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting. People Counting People Counting People Counting Al Yes Tripwire people counting, generating and exporting report (day/week/month); varies can be set for tripwire, people counting in area and queue management; generating and exporting report (day/week/month); varies can be set for tripwire, people counting in area and queue management. Heat Map Yes Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle logo and other attributes: stype, color, number of people, top type and color, hat. Human body attributes: gender, age, expressions, glasses, face mask and beard. Smart Search Work together with Smart N/R to perform refine intelligent search, event extraction and merging to event videos Smart Search Smart Sound Detection Yes White Balance Autor Autor Autor Autor OFF/ON (4 areas, rectangular) Noise Reduction 3D NR Motor Detection OFF/ON (4 areas) Feedures, rectangular) Feeglon of interest (Rol) Yes (4 areas) Image Stabilization Feeglon of interest (Rol) Yes (4 areas) Image Stabilization Feeglon of interest (Rol) Yes Mirror Yes Audio Motor vehical extraction and exporting report (day/week/month); 4 rules can be set for tripwire, and exporting report (day/week/month); 4 rules can be set for tripwire, and exporting report (day/week/month); 4 rules can be set for tripwire, and exporting report (day/week/month); 4 rules can be set for tripwire, and exporting report (day/week/month); 4 rules can be set for tripwire	SMD	SMD 3.0	WDR	120 dB
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TIME TITEM, COCURIN EXCEPTION (ACCOUNT ACCOUNT ACCOUNT)	Smart Sound Detection	Yes		



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				
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 Output	12 VDC power output, max. current 165 mA, peak current 700 mA			
Power				
Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE			
Power Consumption	Basic: 5.3 W (12 VDC); 5.7 W (24 VAC); 5.7 W (PoE) Max. (H.265+ WDR+ Intelligence on): 9.3 W (12 VDC); 10.9 W (24 VAC); 11.2 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)			

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HF5541F-ZE	5MP Box WizMind Network Camera		
	IPC-HF5541F-ZE	5MP 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:



PFB121W Wall Mount Bracket



PFB110W Ceiling Mount Bracket



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



PFH610V Series Housings



PFM321D 12 VDC 1 A Power Adapter

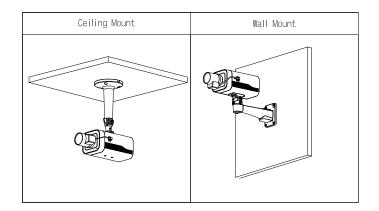


PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

(a)hua 512en U/42 mgs V30 ,





Dimensions (mm[inch])

