



DH-IPC-HF7442F-Z-X

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 X Series network camera supports various intelligent functions, meeting the requirements of a wide variety of scenes. The camera can accurately recognize people, motor and non-motor vehicles, faces. It also supports PPE detection, smart sound detection, privacy protection, ANPR, parking space management, and enabling 2 intelligent functions at the same time. The camera adopts advanced image processing Al-Powered Image technology, has the Deeplight night vision effect and works with ultra-low streams. It is also 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.

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. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in open parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- •Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality snapshots.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Alarm: 2 in, 2 out; audio: 2 in, 1 out; RS-485, BNC; supports max. 512 G Micro SD card.
- 12 VDC/24 VAC/PoE+/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.















ANPR

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

PPE Detection

With the PPE Detection function, the camera can detect attributes including workwear, hat,face mask,apron,gloves,shoe covers, boots, seatbelt, safety vest, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings.

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.

Technical Specification			ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle
Camera		ANPR	color. Other attributes: Seat belt, smoking, calling. Suppor up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate
Image Sensor	1/1.8" CMOS		
Max. Resolution	2688 (H) × 1520 (V)		numbers of vehicles moving at speeds of up to 60km/h. Parking Space Management: Manage outdoor and
ROM	8 GB	Parking Space	planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and
RAM	4 GB	Management	parking spaces that are available; trigger alarms based on a predefined number of vehicles.
Scanning System	Progressive		Motor vehicle, non-motor vehicle, face, and human body
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		detection; snapshot; snapshot optimization; optimal face snapshot upload.
Min. Illumination	0.0005 lux@F1.2 (Color, 30 IRE) 0.0002 lux@F1.2 (B/W, 30 IRE)		Motor vehicle attributes: License plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, and calling. Generates flow statistics for people, motor vehicles and
S/N Ratio	>56dB	Video Metadata	non-motor vehicles based on the direction, and exports reports. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat.
Lens			
Lens Mount	C/CS		Human body attributes: Top and bottom type and color, bag, hat, gender and umbrella.
Iris Control Type	DC-Iris; P-Iris		privacy protection.
Smart Event	Abandoned object; missing object	Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
	Abandoned object, missing object	Video	
Intelligence	Intrusion, tripwire, fast moving (the three functions	Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
IVS (Perimeter Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people	Smart Codec	Smart H.265+; Smart H.264+
Face Detection	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 or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter;	Video Frame Rate	Main Stream: 2688 × 1520@(1–50/60 fps) Sub stream: 1920 × 1080 @(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps) Fourth stream: 1920 × 1080@(1–25/30 fps) Fifth stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
		Stream Capability	5 streams
	There are two modes: General mode and counting mode. General mode: Face detection; 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 or one inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting; privacy protection. Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports reports both before and after removing duplicate faces.	Resolution	4M (2688 × 1520); 3M (2048 × 1536); 3M (2304 × 1296) 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
		Bit Rate Control	CBR/VBR
Face Recognition		Video Bit Rate	H.264: 32 kbps–10240 kbps; H.264: 12 kbps–10240 kbps
		Day/Night	Auto(ICR)/Color/B/W
		BLC	Yes
		HLC	Yes
		WDR	140 dB
		Scene Self-adaptation (SSA)	Yes
PPE Detection	Triggers alarms when the detected object matches or does not match all of the configured attributes (workwear, hat, face mask, apron, gloves, shoe	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
People Counting	covers, boots, seatbelt, safety vest); privacy protection Tripwire people counting and people counting in area, generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management; privacy	Gain Control	Auto
		Noise Reduction	3D NR
		Motion Detection	OFF/ON (4 areas, rectangular)
	protection		Yes (4 areas)
Heat Map	Yes	Image Stabilization	Electronic Image Stabilization (EIS)

Mirror Yes Privacy Masking 8 areas 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; parks space management; scene changing; audio detection; fast recognition; video metadata; ANPR; people counting area; stay alarm; people counting. People counting area; stay alarm; people counting area; stay alarm; people counting. People counting area; stay alarm; people counting area; stay alarm; people counting. People counting area; stay alarm; people counting area; stay alarm; people counting. People counting area; stay alarm; people counting area; stay alarm; people counting. People counting area; stay alarm; people area; stay alarm; people area; stay alarm; people counting area; stay alarm; people area;				
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Network Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UP NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SN P2P Interoperability ONVIF (Profile S/Profile G/Profile T); CGI User/Host 20 (Total bandwidth: 340 M) Storage FTP;SFTP; Micro SD card (support max. 512 GB); NAS Browser IE: IE11 and later; Chrome: Chrome 88.0.4324.190 at later; Firefox: Firefox 47.0.2 and later Management Software SmartPSS Lite; DSS; DMSS Mobile Client iOS;Android 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; General and importing of X.509 certification Certification	SDK and API	Yes		
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Management Software SmartPSS Lite; DSS; DMSS Mobile Client 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; General and importing of X.509 certification Certification	Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS		
Mobile Client 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; General and importing of X.509 certification Certification	Browser	IE: IE11 and later; Chrome: Chrome 88.0.4324.190 and later; Firefox: Firefox 47.0.2 and later		
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Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; General and importing of X.509 certification Certification	Mobile Client	iOS;Android		
	Cyber Security	Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation		
CE-LVD: EN62368-1;	Certification			
CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B;	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;		
Port	Port			
RS-485 1 (baud rate range:1200 bps-115200 bps)	RS-485	1 (baud rate range:1200 bps–115200 bps)		
Audio Input 2 channels (3.5mm JACK port)	Audio Input	2 channels (3.5mm JACK port)		
Audio Output 1 channel (3.5mm JACK port)				
Alarm Input 2 channels in: 5mA 3V–5V DC	Audio Output	1 channel (3.5mm JACK port)		

Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V AC	
Analog Output	1 channel (CVBS output: BNC)	
Power		
Power Supply	12 VDC/24 VAC/PoE+ (802.3at)/ePoE	
Power Consumption	Basic: 8.4 W (12 VDC); 8 W (24 VAC); 6.3 W (PoE) Max. (WDR+ intelligence on+ ICR switch): 17.1 W (12 VDC); 16.5 W (24 VAC); 15 W (PoE)	
Environment		
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)	
Operating Humidity	≤95%	
Storage Temperature	−30 °C to +60 °C (−22 °F to +140 °F)	
Storage Humidity	10-95%	
Anti-corrosion Level	Low	
Structure		
Casing Material	Metal + plastic	
Product Dimensions	161.6 mm × 86.8 mm × 74 mm (6.36" × 3.42" × 2.91") (L × W × H)	
Net Weight	0.80 kg (1.76 lb)	

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HF7442F-Z-X	4MP BOX WizMind Network Camera		
	IPC-HF7442F-Z-X	4MP BOX WizMind Network Camera		
Accessories (Optional)	PFB110W	Wall /Ceiling/Plane Mount		
	PFB121W	Wall Mount		
	DH-PFL1040-A12PE	10-40 mm		
	PFH610V	Housings		
	PFM320D	12 VDC 2A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

1.02 kg (2.25 lb)

Gross Weight

Accessories

Optional:



PFB110W Wall/Ceiling/Plane Mount Bracket



PFB121W Wall Mount Bracket



DH-PFL1040-A12PE 10-40 mm



PFH610V Series Housings



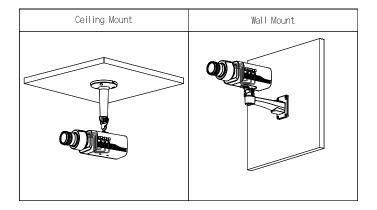
PFM320D 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

