



DH-IPC-HF7442F-Z-S2

4MP BOX WizMind Network Camera



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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

With advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Starlight+

With advanced image processing technology, optical technology, and image sensor of large target surface, Dahua Starlight+ technology can provide clear colorful video in the environment of ultra-low illuminance. It applies to various environments of low illuminance.

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.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, 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, face detection, face recognition, people counting, perimeter protection, etc.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- Alarm: 2 in, 2 out; audio: 2 in, 1 out; 485, BNC, supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/24 VAC/PoE power supply, 12 VDC power output, and max. current 165 mA, easy for installation.



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.

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.

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.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

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Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Technical Specification

Camera

Image SensorJ/1.8° CMOSMax. Resolution2688 (H) × 1520 (V)ROM4 GBRAM2 GBScanning SystemProgressiveProgressiveAuto/Manual 1/3 s-1/100.000 sElectronic Shutter SpeedAuto/Manual 1/3 s-1/100.000 sMin. Illumination0.001 Lux@F1.5 (Color, 30 IRE) 0.0002 Lux@F1.5 (MV, 30 IRE)S/N Ratio>56 dBLens(/CSSmart Event(/CSIVSAbandoned object; missing objectProfessional, intelliersupport the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection including 6 attributes (gender, age, glasses, expressions, mask, and beard) and a expressions (angry, sad, disgusted, scared, surprised, calm, hapy, confused); face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and a expressions (angry, sad, disgusted, scared, surprised, calm, hapy, confused); face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and a expressions (angry, sad, disgusted, scared, surprised, calm, hapy, confused); face snapshot strategies (real-time snapshot, yoptimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and a expressions (angry, sad, disgusted, scared, surprised, calm, hapy, confused); face snapshot strategies (real-time snapshot, yoptimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and	Calificia				
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4 rules can be set for tripwire, people counting in area and queue management.	People Counting	generating and exporting report (day/month/year); queue management and exporting report (day/month); 4 rules can be set for tripwire, people counting in area			

Video Metadata	Motor vehicle, non-motor vehicle, face, human detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: license plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, calling,etc. Non-motor vehicle attributes: type, color, number of people, top type and color ,helmet. Human body attributes: top/bottme type and color, bag, hat, gender, and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream: 704 × 576 (1–25 fps); 704 × 480 (1–30 fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps); 704 × 480 (1–30fps)
Stream Capability	5 streams
Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–10240 kbps H.265: 12 kbps–9984 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	140 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional
	custom
Gain Control	
Gain Control Noise Reduction	custom
	custom Auto; Manual
Noise Reduction	custom Auto; Manual 3D NR
Noise Reduction Motion Detection	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular)
Noise Reduction Motion Detection Region of Interest (Rol)	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas)
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS)
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination Defog	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes Yes O°/90°/180°/270° (Support 90°/270° with 2688×1520
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination Defog Image Rotation	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes Yes O°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination Defog Image Rotation Mirror	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes Yes O°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination Defog Image Rotation Mirror Privacy Masking	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes Yes O°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
Noise Reduction Motion Detection Region of Interest (Rol) Image Stabilization Smart Illumination Defog Image Rotation Mirror Privacy Masking Audio	custom Auto; Manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Electronic Image Stabilization (EIS) Yes Yes O°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower) Yes

Wiz Mind | DH-IPC-HF7442F-Z-S2

Alarm Event	No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management	
Network		
Network Port	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
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	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Browser	With plug-in: IE: IE 8 and later Chrome: 45 and earlier Firefox: 46 and earlier Safari: 12 and earlier Without plug-in: Edge Chrome: 45 and later Firefox: 46 and later Safari: 12 and later	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	iOS; Android	
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 (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	2 channels in: 5 mA 3 V–5 VDC	
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC	
Power		
Power Supply	12 VDC/24 VAC/PoE+ (802.3at)	
Power Consumption	Basic power consumption: 7.55W (12V DC); 7.26W(24V AC); 7.76W (PoE) Max. power consumption (Max. stream + intelligent function + focus): 17.35W (12V DC);16.99W(24V AC); 17.75W (PoE) Heat power consumption: 5W (12V DC);5.5W(24V AC); 5.5W (PoE)	

Environment

Operating Conditions	-30°C to $+60^\circ\text{C}$ (–22°F to $+140^\circ\text{F}) /Less than 95% RH$
Storage conditions	-30°C to +60°C (-22°F to +140°F)
Structure	
Casing	Metal + plastic
Product Dimensions	161.6 mm × 86.8 mm × 74.0 mm (6.36" × 3.42" × 2.91") (L × W × H)
Net Weight	0.85 kg (1.87 lb)
Gross Weight	0.97 kg (2.14 lb)

Ordering Information

Туре	Model	Description
4MP Camera	DH-IPC-HF7442F-Z-S2	4MP BOX WizMind Network Camera
	IPC-HF7442F-Z-S2	4MP BOX WizMind Network Camera
	PFB110W	Wall /Ceiling/Plane Mount
Accessories (Optional)	PFB121W	Wall Mount
	PLZ21CO-P	10.5-42 mm
	PLZ20C0-P	3.7-16 mm
	PFH610V	Housings
	DH-PFL010542-A12PE	10.5-42 mm
	PFM320D	12 VDC 2A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Wiz Mind | DH-IPC-HF7442F-Z-S2

Accessories

Optional:



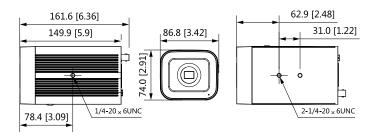
PFB110W Wall /Ceiling/Plane Mount

PFA121W Wall Mount



PLZ21CO-P 10.5-42 mm







PLZ20C0-P

3.7-16 mm

PFH610V Housings

DH-PFL010542-A12PE 10.5-42 mm



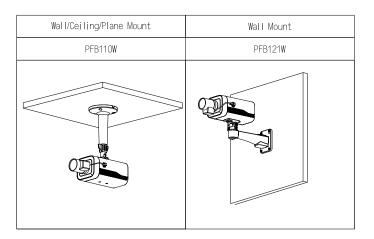
PFM320D 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



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