

DH-IPC-HF5852F-ZE

8MP 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

With its deep learning algorithms, the WizMind 5 Series camera offers advanced analytical capabilities for both audio and video. It integrates intelligent features such as video metadata, AcuPick, face detection, perimeter protection, and people counting. Powered by the Xinghan Large-Scale Al Models-Vision, the camera excels in object detection, recognition, and scene adaptation. Equipped with Al-ISP imaging technology, it offers enhanced night vision performance. The series is designed for durability, being dust-proof, waterproof, and vandal-proof, in compliance with IP67 and IK10 standards, though support for these certifications may vary across models.

Functions

Xinghan Large-Scale AI Models-Vision

Xinghan Large-Scale AI Models-Vision seamlessly expands the storage and operational capacity of algorithmic models through the powerful integration of edge AI model algorithms and NPU computing power. Engineered with a lightweight transformer architecture and enhanced by model distillation and quantization techniques, it optimizes the computing power consumption of ViT operators. This enables the system to collaborate on multiple tasks simultaneously through joint inference between small and large models optimized for edge devices.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- . Outputs max. 8 MP(3840×2160)@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.
- Features AI Rule Assist, which automatically creates highly accurate IVS rules based on the Xinghan Vision Models.
- With deep learning algorithm, it supports: AcuPick, video metadata, IVS, face detection, and people counting, etc.
- Alarm: 2 in, 2 out; audio: 2 in, 1 out; RS-485; BNC; supports max. 1
 TB Micro SD card; built-in Mic.
- 12 VDC/24 VAC/PoE power supply; ePoE; 12 VDC power output, and max. current 165mA, easy for installation.









Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

Protection (Wide Voltage)

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.

Technical Specification				
Camera				
Image Sensor	1/1.8" CMOS			
Max. Resolution	3840 (H) × 2160 (V)			
ROM	4 GB			
RAM	2 GB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination	With 10 mm–40 mm lens: 0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE)			
S/N Ratio	>56 dB			
Lens				
Lens Mount	c/cs			
Intelligence				
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle, animal and human); loitering detection, people gathering, parking detection, stay detection. Offers Perimeter Protection Large-Scale AI Models to extend the target detection range and reduce the rate of false alarm. Supports self-learning, it filters out false alarms.			
SMD	SMD 4.0			
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, animal and motor vehicles, and search through live and recorded videos to quickly locate targets.			
Face Detection	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, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.			
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 in area and queue management.			
Heat Map	Yes			
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6 attributes for non-motor vehicle. Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body.			
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; H.264B; MJPEG (Only supported by the sub stream)	
Al Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+	
Video Frame Rate	Main stream: $3840 \times 2160@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ Third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ Fourth stream: $1280 \times 720@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Streaming Capability	4 streams	
Resolution	8M (3840 × 2160); 6M (3072 × 2048/3200 × 1800); 5M (3072 × 1728/2592 × 1944/2960 × 1668); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 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	VBR;CBR	
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Image Stabilization	Electronic Image Stabilization (EIS)	
Defog	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 \times 1520) resolution and lower)	
Mirror	Yes	
Privacy Masking	4 mosaics or 8 color blocks	
Audio		
Built-in MIC	Yes, built-in Mic	
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; loitering detection; people gathering; parking detection; scene changing; audio detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection	
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; Auto Registration	
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CGI	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS	
Browser	IE: IE 11 and later; Chrome: Chrome 102 and later; Firefox: Firefox 88 and later	
Management Software	DSS; DMSS; DoLynk Care	
Mobile Client	iOS;Android	
Security	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;Session security;Security warning	
Function		
Sound Warning	Offers 11 sound alarms and supports importing 10 custom sound alarms. Sound: 0–100 Play times can be set from 1 to 10.	
Certification		
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
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, 5 mA 3–5 VDC	
Alarm Output	2 channels out: dry contact, 1,000 mA 30 VDC/500 mA 50 VAC	
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 (±25%) & 24 VAC (±30%) public power port; PoE+(802.3at); ePoE	

Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.	
Power Consumption	Basic: 5.3 W (12 VDC); 5.8 W (24 VAC); 7.2 W (PoE); Max.: 12.3 W (12 VDC); 13.7 W (12 VAC);14.8 W (PoE) (H.265 + WDR+ intelligence on)	
еРоЕ	Yes	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
Structure		
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		
IP CAMERA	DH-IPC-HF5852F-ZE	8MP Box WizMind Network Camera		
	DH-PFB110W	Ceiling Mount Bracket		
	DH-PFB121W	Wall Mount Bracket		
Accessories (Optional)	DH-PFM320D-EN	DC12V2A power adapter		
	PFM900-E	Integrated Mount Tester		
	DHI-TF-P100/1TB	MicroSD Card		
	DH-PFL1040-A12PE	Motorized Vari-Focal Lens		
	PFH610V Series	Housings		

Accessories

Optional:



DH-PFB110W Ceiling Mount Bracket



DH-PFB121W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DHI-TF-P100/1TB MicroSD Card



DH-PFL1040-A12PE Motorized Vari-Focal Len

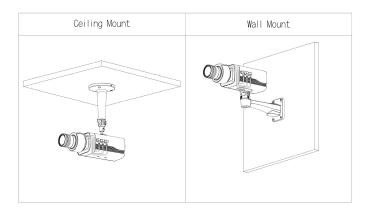


PFM900-E Integrated Mount Tester



PFH610V Series Housings





Dimensions (mm[inch])

