



# DH-IPC-HF5842F-ZE-S2

8 MP Box WizMind Network Camera







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.

#### **System Overview**

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

### **Functions**

#### **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 Attributes**

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

#### **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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- 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.
- · Alarm: 2 in, 2 out; audio: 1 in, 1 out; RS-485, BNC; supports max. 256 G 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 yearly/monthly/daily reports to meet your requirements.

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

#### 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 Specification		BLC	Yes
Camera		HLC	Yes
Image Sensor	1/1.8"CMOS	WDR	120dB
Max. Resolution	3840 (H) × 2160 (V)	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
ROM	128 MB	Gain Control	Auto; manual
RAM	1 GB	Noise Reduction	3D NR
Scanning System	Progressive	Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	Region of Interest (RoI)	Yes (4 areas)
Min. Illumination	With 10.5 mm-42 mm lens: 0.004 lux@F1.5 (Color, 30 IRE) 0 lux (Illuminator on)	Image Stabilization  Defog	Electronic Image Stabilization (EIS) Yes
S/N Ratio	>56 dB		0°/90°/180°/270° (Support 90°/270° with 4 M resolution
Lens		Image Rotation	and lower)
Mount Type	C/CS	Mirror	Yes
Smart Event		Privacy Masking	8 areas
IVS	Abandoned object; missing object	Audio	
Heat Map	Yes	Built-in MIC	Yes
Professional, intellige		Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Professional, intellige	Tripwire; intrusion; fast moving (the three functions	Alarm	
IVS (Perimeter Protection)	support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection  Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting:	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection;
Face Detection	face, single inch photo; three snapshot methods: real- time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting		intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management
	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports.  Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm.  Support queue management, and 4 rules configuration.	Network	
People Counting		Network Port  SDK and API	RJ-45 (10/100 Base-T) Yes
		SDK dilu Ar i	Video encryption; configuration encryption; Digest;
Intelligent Search	Count number of people or stay time and link alarm  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	Cyber Security	WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Video	videos	Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
Smart Codec	Smart H.265+/H.264+	User/Host	20 (Total bandwidth: 80 M)
	Main stream: 3840× 2160 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps)	Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Video Frame Rate	Third stream: 1080p (1 fps–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	Browser	IE: IE8 and later Chrome Firefox
Stream Capability	3 streams	Management Software	Smart PSS; DSS; DMSS
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 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)	Mobile Client	iOS; Android
		Certification	CF IVID, FMC22C0 1
Bit Rate Control	CBR/VBR	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps	Certifications	FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07



# Port

Audio Input	1 channel (3.5 mm JACK port)
Audio Output	1 channel (3.5 mm JACK port)
Alarm Input	2 channels in: 5 mA 3V–5 VDC
Alarm Output	2 channels out: 300 mA 12 VDC

#### Power

Power Supply	12 VDC (±25%)/24V AC (±30%)/PoE (802.3at)/ePoE
Power Consumption	Basic power consumption: 7.9W (12 VDC); 9.3 W (24 VAC); 9.9W (PoE) Max. power consumption (H.265 + max. stream + intelligent function): 10.5W (12 VDC); 12.3 W (24 VAC); 13.1W (PoE)

#### Environment

Operating Temperature	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH
Storage Temperature	−30 °C to +60 °C (−22 °F to +140 °F)

#### Structure

Casing	Metal
Product Dimensions	161.6 mm × 86.8 mm × 74.0 mm (6.4" × 3.4" × 2.9")
Net Weight	800 g (1.8 lb)
Gross Weight	900 g (2.0 lb)

#### **Ordering Information** Model Type Description 8 MP Box WizMind Network DH-IPC-HF5842FP-ZE-S2 Camera, PAL 8MP Camera 8 MP Box WizMind Network IPC-HF5842FP-ZE-S2 Camera, PAL PFB120WS Wall Mount Bracket PFB110W Ceiling mount Bracket DH-PFL010542-A12PE 10.5-42 mm Accessories PFH610V Series Housings (Optional) PFM321D 12 VDC 1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester

# Accessories

## Optional:



PFB120WS Wall Mount Bracket



PFB110W Ceiling mount Bracket



DH-PFL010542-A12PE 10.5-42 mm



PFH610V Series Housings



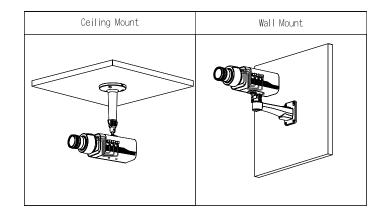
PFM321D 12 VDC 1A Power Adapter



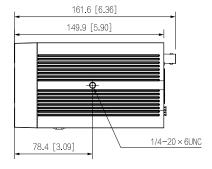
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

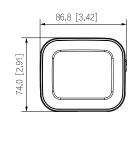


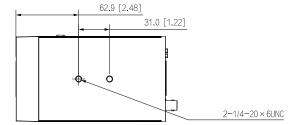
PFM900-E Integrated Mount Tester



# Dimensions (mm[inch])









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