

## DH-IPC-HFW5442E-ZE-OPAT

4 MP DHOP Vandal-proof IR Dome Network Camera







#### **Series Overview**

Dahua DHOP series network cameras adopt open application platform, allows 3rd party applications to be downloaded and installed on this series cameras. It provides end-users with the right solutions to optimize their security or IoT environment. Flexibility is also guaranteed as users can always remove existing applications and upload new solutions.

#### **Functions**

#### **DHOP (Dahua Hardware Open Platform)**

With open architecture, encapsulated hardware make it easier to develop and upgrade software this series cameras. It has a diverse ecosystem, various applications are available for the users to select the suitble solutions. Find more available applications here: https://depp.dahuasecurity.com/OpenPlatform.

#### 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.

#### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### ePOE

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.

- 4 MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 ×1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED; the max. IR illumination distance is 60 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, appli cable to various monitoring scenes.
- Abnormality detection: motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error,network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, ePoE, transmission over long distance, easy for installations of various scenes.
- IP67 protection.











#### **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 (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

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	l Specificati	on					Main stream: 2688 × 1520 @(1 fps–30 fps)
DHOP						NEL 5 D.	Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps)
Computing Power		1T computing	g power for enl	nanced perform	ance	Video Frame Rate	Third stream: 1920 × 1080@(1 fps–30 fps)  *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Flash		58M				Stroom Conshility	to the total encoding capacity.
System Memory		380M				Stream Capability  Resolution	3 streams
Multimedia Memory		256M					4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 x 480); CIF (352 × 288/352 × 240)
DHOP Partners			, etc. ( https://	bi, Retailflux, Sit depp.dahuasec		Bit Rate Control	CBR/VBR
Camera						Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Image Sensor		1/1.8" CMOS				Day/Night	Auto(ICR)/Color/B/W
Max. Resolu	tion	2688 (H) × 15	20 (V)			BLC	Yes
ROM		1 GB				HLC	Yes
RAM		128 MB				WDR	120 dB
Scanning System		Progressive				Scene Self-adaptation (SSA)	Yes
Electronic Shutter Speed		0.003 Lux@F	1/3 s-1/100,0	RE)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Min. Illumination		0.0003 Lux@ 0 lux (Illumina	F1.8 (B/W,30 If ator on)	RE)		Gain Control	Auto; Manual
S/N Ratio		> 56 dB				Noise Reduction	3D NR
Illumination Distance		60 m (196.9 ft) (IR)				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control		Auto, manual				Region of Interest (RoI)	Yes (4 areas)
Illuminator N	Number	4 (IR LED)				Defog	Yes
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		860°			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Lens						Mirror	Yes
Lens Type		Motorized va	ri-focal			Privacy Masking	8 areas
Lens Mount		ф14				Audio	
Focal Length	1	2.7 mm-12.0	mm			Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Max. Apertu	ıre	F1.8				Alarm	
Field of View		Horizontal: 13 Vertical: 61°-7 Diagonal: 134	26°			Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio detection; voltage detection; external alarm; security
Iris Control		Auto				Network	exception
Close Focus		1.2 m (3.9 ft)				Network Port	DI 4F /10/100 Fabonsoment Page T)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		RJ-45 (10/100 Enhancement Base-T)
	W	57.3 m (188.0 ft)	22.9 m (75.1 ft)	11.4 m (37.4 ft)	5.7 m (18.7 ft)	SDK and API	Yes  Video encryption; Firmware encryption; Configuration
Video	Т	130.7 m (428.8 ft)	52.3 m (171.6 ft)	26.1 m (85.6 ft)	13 m (43 ft)	Cyber Security	encryption; Primare Encryption; Comparation 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
Video Compression		the sub stream	m)	4B; MJPEG (only	y supported by	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
Siliart Codeo	Smart Codec		-;Smart H.264+			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP SDK

User/Host

20 (Total bandwidth: 72 M)

## **5 Series** | DH-IPC-HFW5442E-ZE-OPAT

Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Browser	IE: IE8/9/11 Chrome Firefox		
Management Software	Smart PSS; DSS		
Certification			
Certification	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart B		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: 5mA 3V–5 VDC		
Alarm Output	1 channel out: 300 mA 12 VDC		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic power consumption: 3W (12 VDC); 3.7W (PoE) Max. power consumption (max. stream + IR LED + focus): 9.9W (12 VDC); 10.9W (PoE)		
Environment			

# Protection Structure

Rev 001.001

Operating Temperature
Operating Humidity

Storage Temperature

Casing	Metal	
Product Dimensions	88.9 mm × Φ122 mm (3.5"×Φ4.8")	
Net Weight	0.46kg (1 lb)	
Gross Weight	0.62kg (1.4 lb)	

≤ 95%

IP67

−30 °C to +60 °C (−22 °F to +140 °F)

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Ordering Information					
Туре	Model	Description			
5 MP Camera	DH-IPC-HFW5442E- ZE-OPAT	4 MP DHOP IR-Bullet Box Network Camera			
5 MP Camera	IPC-HFW5442E-ZE- OPAT	4 MP DHOP IR-Bullet Box Network Camera			
	PFA138	Junction Box			
	PFB211W	Wall mount			
	PFB300C	Ceiling mount			
Accessories (Optional)	PFA152-E	Pole mount			
	PFA101	Mount adapter			
	PFB201C	In-ceiling mount			

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#### **Accessories**

### Optional:







PFA138 Junction Box

PFB211W Wall mount

PFB300C Ceiling mount







PFA152-E Pole mount

PFA101 Mount adapter

PFB201C In-ceiling mount

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

#### Dimensions (mm[inch])





