

DH-IPC-HFW5541E-ZE-OPAT

5 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.

- 5 MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 \times 1944)@20 fps and supports 4 MP (2688 \times 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	Specification	on						Main stream: 2592 × 1944@(1 fps-20 fps)/2688 × 1520	
DHOP						@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) 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 to the total encoding capacity.			
Computing Power		1T computing power for enhanced performance						Video Frame Rate	
Flash		58M							
System Memory		380M					Stream Capability	3 streams	
Multimedia Memory		256M					Resolution	5M (2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M	
DHOP Partners		A.I.Tech, ACIC, Grekkom, Kobi, Retailflux, Siteeye, TechnoAware, etc. (https://depp.dahuasecurity.com/						(2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); VGA (640 × 480); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Camera		OpenPlatform)					Bit Rate Control	CBR/VBR	
Image Sensor		1/2.7" CMOS					Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps	
Max. Resolut							Day/Night	Auto (ICR)/Color/B/W	
ROM	uon	2592 (H) × 1944 (V)					BLC	Yes	
		1 GB					HLC	Yes	
RAM		128 MB					WDR	120 dB	
Scanning System		Progressive					Scene Self-adaptation	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					(SSA)		
Min. Illumination		0.005 Lux@F1.5 (Color,30 IRE) 0.0005 Lux@F1.5 (B/W,30 IRE) 0 lux (Illuminator on)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
S/N Ratio		> 56 dB					Gain Control	Auto; Manual	
Illumination Distance		60 m (196.9 ft) (IR)					Noise Reduction	3D NR	
Illuminator On/Off Control		Auto, manual					Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator Number		4 (IR LED)					Region of Interest (RoI)	Yes (4 areas)	
Pan/Tilt/Rota	ation Range	Pan: 0°–360°					Defog	Yes	
Lens	ation Nange	Tilt: 0°–90° Rotation: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)	
		NAME of the state					Mirror	Yes	
Lens Type		Motorized vari-focal					Privacy Masking	8 areas	
Lens Mount		ф14					Audio		
Focal Length		2.7 mm-13.5 mm					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
Max. Apertu	re	F1.5					Alarm		
Field of View	Field of View		4°-29° 1° °-36°				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio	
Iris Control		Auto						detection; voltage detection; external alarm; security exception	
Close Focus Distance		0.8 m (2.6 ft)					Network		
	Lens	Detect	Observe	Recognize	Identify		Network Port	RJ-45 (10/100 Enhancement Base-T)	
DORI Distance	W	64 m (210 ft)	25.6 m (84 ft)	12.8 m (42 ft)	6.4 m (21 ft)		SDK and API	Yes	
Video	Т	212 m (696 ft)	84.8 m (278.2 ft)	42.4 m (139.1 ft)	21.2 m (69.6 ft)		Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; pulgor HTTPS: 802 Jay Trusted boot: Trusted	
	ш эег. ш эе		5; H.264; H.264H; H.264B; MJPEG (only supported by					certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
	Video Compression		the sub stream)				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	
Smart Couet	Smart Codec		Smart H.265+;Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP SDK	

User/Host

20 (Total bandwidth: 72 M)

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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	DC12V/PoE (802.3af)
Power Consumption	Basic power consumption: 3W (12V DC); 3.7W (PoE) Max. power consumption (max. stream + IR LED + focus): 9.9W (12V DC); 10.9W (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)
Protection	IP67

Structure

Casing	Metal + plastic
Product Dimensions	273.2 mm \times 95.0 mm \times 95.0 mm (10.8" \times 3.7" \times 3.7") (L \times W \times H)
Net Weight	1.11 kg (2.4 lb)
Gross Weight	1.51 kg (3.3 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC-HDBW5541E- ZE-OPAT	5MP DHOP Vandal-proof IR Dome Network Camera		
5MP Camera	IPC-HDBW5541E-ZE- OPAT	5MP DHOP Vandal-proof IR Dome Network Camera		
	PFA138	Junction Box		
	PFB211W	Wall mount		
Accessories	PFB300C	Ceiling mount		
(Optional)	PFA152-E	Pole mount		
	PFA101	Mount adapter		
	PFB201C	In-ceiling mount		

Accessories

Optional:







PFA138 Junction Box

PFB211W Wall mount

PFB300C Ceiling mount





Pole mount

PFA101 Mount adapter

PFB201C In-ceiling mount

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





