

DH-IPC-HDBW5541E-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 50 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/24V AC/PoE power supply, ePoE, transmission over long distance, easy for installations of various scenes.
- IP67/IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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				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
Computing Power		1T computing power for enhanced performance				Video Frame Rate	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.
Flash		58M					
System Mem	System Memory		380M			Stream Capability	3 streams
Multimedia Memory		256M				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/			Resolution (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	
Camera Image Sensor		1/2.7" CMOS				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Max. Resolut		2592 (H) × 1944 (V)			Day/Night	Auto (ICR)/Color/B/W	
ROM		128 MB			BLC	Yes	
RAM					HLC	Yes	
Scanning Sys	tom	1 GB			WDR	120 dB	
Electronic Sh		Progressive			Scene Self-adaptation	Yes	
Min. Illumina	·	Auto/Manual 1/3 s=1/100,000 s 0.005 Lux@F1.5 (Color,30 IRE) 0.0005 Lux@F1.5 (B/W,30 IRE)			(SSA) White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
C/N Datia		0 lux (Illuminator on)				Gain Control	Auto; Manual
S/N Ratio	Dietonos	> 56 dB			Noise Reduction	3D NR	
Illumination		50 m (164 ft) (IR)			Motion Detection	OFF/ON (4 areas, rectangular)	
	On/Off Control	Auto, manual			Region of Interest (RoI)	Yes (4 areas)	
Illuminator N	umber	3 (IR LED) Pan: 0°-355°			Defog	Yes	
Pan/Tilt/Rota	ation Range	Tilt:0°-75° Rotation:0°-355°			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Lens					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		Horizontal: 104°-29° Vertical: 72°-21° Diagonal: 138°-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			, name Evelit	detection; voltage detection; external alarm; security exception	
Close Focus Distance		0.8 m (2.6 ft)			Network	C.deption	
	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
	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
Video						certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by 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 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	12 VDC/AC24V/PoE (802.3af)
Power Consumption	Basic power consumption: 4.9W (12 VDC); 5.1 W (24V AC); 5.2 W (PoE) Max. power consumption (max. stream + IR LED + focus): 12.4W (12 VDC); 11.9 W (24V AC); 11.6 W (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; IK10		

Structure

Casing	Metal
Product Dimensions	117.9 mm × Φ159.0 mm (4.6" × Φ6.3")
Net Weight	0.95 kg (2.1 lb)
Gross Weight	1.2 kg (2.6 lb)

Ordering Information			
Туре	Model	Description	
5MP Camera	DH-IPC-HDBW5541E- ZE-OPAT	5MP DHOP Vandal-proof IR Dome Network 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





PFA152-E Pole mount

PFA101 Mount adapter

PFB201C In-ceiling mount

Ceiling Mount	Junction Mount	Ceiling Mount
In-ceiling Mount	Wall Mount	Pole Mount

Dimensions (mm[inch])

