

DH-IPC-HDBW5541R-ASE-OPAT

5 MP DHOP IR-Bullet Box 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 30 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/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			Stream Capability	3 streams			
DHOP							5M (2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M
Computing Power		1T computing power for enhanced performance			ance	Resolution	(2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); VGA (640 × 480); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Flash		58M				Bit Rate Control	CBR/VBR
System Memory		380M				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Multimedia Memory		256M				Day/Night	Auto(ICR)/Color/B/W
DHOP Partners		A.I.Tech, ACIC, Grekkom, Kobi, Retailflux, Siteeye, TechnoAware, etc. (https://depp.dahuasecurity.com/ OpenPlatform)				BLC	Yes
Camera		Оренглацонні				HLC	Yes
Image Sensor		1/2.7" CMOS				WDR	120 dB
Max. Resolut	tion	2592 (H) × 1944 (V)				Scene Self-adaptation (SSA)	Yes
ROM		1 GB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
RAM		128 MB				Gain Control	Auto; Manual
Scanning Sys	tem	Progressive				Noise Reduction	3D NR
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s				Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illumina	ation	0.002 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE)				Region of Interest (RoI)	Yes (4 areas)
S/N Ratio		0 lux (Illuminator on) > 56 dB				Defog	Yes
Illumination	Distance	30 m (98.43 ft) (IR)				Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 2688×1520 resolution and lower)
Illuminator C	n/Off Control	Auto, manual				Mirror	Yes
Illuminator N	lumber	1 (IR LED)				Privacy Masking	8 areas
Pan/Tilt/Rota	ation Range	Pan: 0°–355° Tilt:0°–75°				Audio	
1		Rotation:0°-355°				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Lens						Alarm	
Lens Type		Fixed-focal				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
Lens Mount Focal Length		M12 2.8 mm					
Max. Apertui		F1.6				Network	exception
Field of View		Horizontal: 98°× Vertical: 71°× Diagonal: 129°			9°	Network Port	DI 4F /10/100 Enhancement Poss T
Iris Control							RJ-45 (10/100 Enhancement Base-T)
Close Focus [Distance	1.1 m (2.6 ft)				SDK and API	Yes Video encryption; Firmware encryption; Configuration
Close Focus I	Lens	1.1 m (3.6 ft) Detect	Observe	Recognize	Identify	Cyber Security	encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509
DORI Distance		63.6 m	25.4 m	12.7 m	6.4 m	, ,	certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Video 2.8 mm		(208.7 ft) (83.3 ft) (41.7 ft) (21 ft)		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		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			y supported by	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP SDK
Smart Codec		Smart H.265+;Smart H.264+				User/Host	20 (Total bandwidth: 72 M)
Video Frame Rate		Main stream: $2592 \times 1944@(1 \text{ fps-}20 \text{ fps})/2688 \times 1520 @(1 \text{ fps-}30 \text{ fps})$ Sub stream: $704 \times 576@(1 \text{ fps-}25 \text{ fps})/704 \times 480@(1 \text{ fps-}30 \text{ fps})$ Third stream: $1920 \times 1080@(1 \text{ fps-}30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.			2688 × 1520	Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
					×480@(1		IE: IE8/9/11
						Browser	Chrome Firefox
					I be subjected	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)/ePoE
Power Consumption	Basic power consumption: 2.8W (12V DC); 3.3W (PoE) Max. power consumption (max. stream + IR LED): 5.6W (12V DC); 6.1W (PoE)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤ 95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67;IK10		

Structure

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)		

Ordering Information			
Туре	Model	Description	
4MP Camera	DH-IPC-HDBW5541R- ASE-OPAT	5MP DHOP Vandal-proof IR Dome Network Camera	
4IVIP Camera	IPC-HDBW5541R- ASE-OPAT	5MP DHOP Vandal-proof IR Dome Network Camera	
	PFA137	Junction Mount Bracket	
	PFB203W	Wall Mount Bracket	
	PFB200C	In-Ceiling Mount Bracket	
Accessories	PFA106+PFB220C	Ceiling Mount Bracket	
(Optional)	PFB203W+PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	

Accessories

Optional:



PFA137 Junction Mount Bracket



PFB203W Wall Mount Bracket



PFB200C In-Ceiling Mount Bracket







PFB203W+PFA152-E Pole Mount Bracket

12 VDC 1A Power Adapter



PFA106+PFB220C

Ceiling Mount Bracket

PFM900-E Integrated Mount

Ceiling Mount	Junction Mount	Ceiling Mount
In=Ceiling Mount	Wall Mount	Pole Mount(Horizontal)
Pole Mount(Vertical)	Corner Mount	

Dimensions (mm[inch])

