

DH-IPC-HDBW5442R-ASE-OPAT

4 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.

- 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 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
- 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					4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); VGA (640 × 480); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)		
Computing Power		1T computing power for enhanced performance				Resolution	
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
DHOD Partners		A.I.Tech, ACIC, Grekkom, Kobi, Retailflux, Siteeye, TechnoAware, etc. (https://depp.dahuasecurity.com/ OpenPlatform)				BLC	Yes
DHOP Partners						HLC	Yes
Camera	Camera					WDR	120 dB
Image Senso	r	1/1.8" CMOS				Scene Self-adaptation (SSA)	Yes
Max. Resolut	tion	2688 (H) × 1520 (V)				, ,	Auto; natural; street lamp; outdoor; manual; regional
ROM		1 GB				White Balance	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-1/100,0	00 s		Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illumina	Min. Illumination		1.6 (Color,30IRI F1.6 (B/W,30IR	,		Region of Interest (RoI)	Yes (4 areas)
C/N Dotio			ator on)			Defog	Yes
·	S/N Ratio		+) (ID)			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Illumination		30 m (98.43 ft) (IR)				Mirror	Yes
	on/Off Control	Auto, manual				Privacy Masking	8 areas
Illuminator N	lumber	1 (IR LED) Pan: 0°-355°				Audio	
Pan/Tilt/Rota	ation Range	Fall: 0 –555 Tilt:0°–75° Rotation:0°–355°				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Lens		Notation 233				Alarm	
Lens Type		Fixed-focal					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		M12				Alarm Event	
Focal Length		2.8 mm				Network	exception
Max. Apertu	re	F1.6				Network Port	RJ-45 (10/100 Enhancement Base-T)
Field of View	•	Horizontal: 113°× Vertical: 60°× Diagonal: 135°					
Iris Control		Fixed				SDK and API	Yes
Close Focus I	Distance	1.3 m (4.27 ft)				Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;
DORI	Lens	Detect	Observe	Recognize	Identify	Cyber Security	IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Distance	2.8 mm	73.1 m (239.8 ft)	29.2 m (95.8 ft)	47.9 m (39 ft)	24 m (20 ft)	Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
Video H.265: H.264: H		54; H.264H; H.264B; MJPEG (only supported by				Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	
Video Compression		the sub stream)				Interoperability	SDK
Smart Codec		Smart H.265+;Smart H.264+				User/Host	20 (Total bandwidth: 72 M)
Video Frame Rate		Main stream: $2688 \times 1520 @ (1 \text{ fps}-30 \text{ fps})$ 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.				Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
						Browser	IE: IE8/9/11 Chrome Firefox
						Management Software	Smart PSS; DSS

Certification

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 × Ф122 mm (3.5"× Ф4.8")
Net Weight	0.46 kg (1 lb)
Gross Weight	0.62 kg (1.4 lb)

Ordering Information				
Туре	Model	Description		
4 MP Camera	DH-IPC-HDBW5442R- ASE-OPAT	4 MP DHOP Vandal-proof IR Dome Network Camera		
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	PFA137	Junction Mount Bracket		
	PFB203W	Wall Mount Bracket		
	PFB200C	In-Ceiling Mount Bracket		
Accessories (Optional)	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





Ceiling Mount Bracket



PFB203W+PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester

Ceiling Mount	Junction Mount	Ceiling Mount
Compression Compre	STEATH MODE	
In-Ceiling Mount	Wall Mount	Pole Mount(Horizontal)
Pole Mount(Vertical)	Corner Mount	

Dimensions (mm[inch])



