

DH-IPC-HDBW5442E-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 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.

DITOP	Technical Specification					Main stream: 2688 × 1520 @(1 fps–30 fps)		
Part				Video Framo Bato	·			
Styles			1T computing power for enhanced performance			ance	video Frame Rate	*The values above are the max. frame rates of each
System	Flash		58M					
Multimedia Memory Mid-	System Memory		380M				Stream Capability	
DHOP Partners	Multimedia Memory		256M				Resolution	(1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 ×
Make Batt Mate	DHOP Partners		TechnoAware, etc. (https://depp.dahuasecurity.com/				Bit Rate Control	
Max. Resolution 2688 (H) x 1520 (M)	Camera						Video Bit Rate	·
ROM	Image Senso	r	1/1.8" CMOS				Day/Night	Auto (ICR)/Color/B/W
Mark	Max. Resolut	tion	2688 (H) × 1520 (V)				BLC	Yes
Scanning System	ROM		128 MB				HLC	Yes
SSA No.	RAM		1 GB				WDR	120 dB
Min. Illumination 0.003 Lux@P1.8 (Color, 30 IRE) 0.0003 Lux@P1.8 (Color, 30 IRE) 0.0003 Lux@P1.8 (KVM, 30 IRE) 0.000	Scanning Sys	tem	Progressive					Yes
Min. Illumination	Electronic Sh	nutter Speed						
Illumination Distance	Min. Illumina	ation	0.0003 Lux@F1.8 (B/W, 30 IRE)				Gain Control	Auto; Manual
Illuminator On/Off Control Auto, manual Region of Interest (Rol) Yes (4 areas)	S/N Ratio		> 56 dB				Noise Reduction	3D NR
Illuminator Number 3 (IR LED) Defog Yes	Illumination	Distance	50 m (164 ft) (IR)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan or P	Illuminator C	On/Off Control	Auto, manual				Region of Interest (RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range	Illuminator N	Number	3 (IR LED)				Defog	Yes
Lens Type Motorized vari-focal Privacy Masking 8 areas Audio Focal Length 2.7 mm-12.0 mm Audio Compression PCM; G.711a; G.711Mu; G.726; G.723 Max. Aperture F1.8 Alarm Field of View Portical: 61*-26* Diagonal: 134*-53* Alarm Field of View Diagonal: 134*-53* Alarm Field of View Diagonal: 134*-53* Alarm 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;	Pan/Tilt/Rota	ation Range	Tilt:0°-75°				Image Rotation	
Lens Mount	Lens						Mirror	Yes
Focal Length 2.7 mm-12.0 mm Audio Compression PCM; G.711a; G.711Mu; G.726; G.723 Max. Aperture F1.8 Alarm Field of View Horizontal: 113*-46 Vertical: 61*-26* Diagonal: 134*-53* Iris Control Auto Close Focus Distance 1.2 m (3.9 ft) DORI Distance V (188.0 ft) (75.1 ft) (37.4 ft) T 130.7 m (2.9 m (171.6 ft) (85.6 ft) (43 ft) Video Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Alarm Event PCM; G.711a; G.711Mu; G.726; G.723 Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; violtage detection;	Lens Type		Motorized vari-focal				Privacy Masking	8 areas
Max. Aperture F1.8 Horizontal: 113*-46 Vertical: 61*-26* Diagonal: 134*-53* Iris Control Auto Alarm Event Alarm Event Alarm Event 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 exception Network Network Network Port RI-45 (10/100 Enhancement Base-T) SDK and API Yes Video encryption; Firmware encryption; Configuration 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 Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol Novir (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Lens Mount		ф14				Audio	
Field of View Horizontal: 113°-46 Vertical: 61°-26° Diagonal: 134°-53° Iris Control Auto Close Focus Distance Lens Detect Observe Recognize Heard Network Network Port BJK and API Yes Video encryption; Firmware encryption; Configuration 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 H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Interoperability No SD card; SD card full; SD card	Focal Length		2.7 mm-12.0 mm				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Field of View Vertical: 61*-26* Diagonal: 134*-53* Alarm Event disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; voltage detection; external alarm; security exception Network Network Port RJ-45 (10/100 Enhancement Base-T) SDK and API Yes T 130.7 m 52.3 m 22.9 m 11.4 m 5.7 m (18.7 ft) (18.7 ft) (18.6 ft) (37.4 ft) (18.7 ft) Video 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 H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Max. Apertu	re	F1.8				Alarm	
Close Focus Distance Lens Detect Observe Recognize Identify Network Network Port RJ-45 (10/100 Enhancement Base-T) SDK and API Yes Video encryption; Firmware encryption; Configuration 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 Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Interoperability Network Network Port RJ-45 (10/100 Enhancement Base-T) Video 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 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 ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Field of View	ı	Vertical: 61°-26°				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio
Lens Detect Observe Recognize Identify Network Port RJ-45 (10/100 Enhancement Base-T) SDK and API Yes Video encryption; Firmware encryption; Configuration 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 H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Interoperability Network Port RJ-45 (10/100 Enhancement Base-T) Video encryption; Firmware encryption; Configuration 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 Network Protocol IPV4; IPV6; HTTP;TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP Smart Codec ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Iris Control		Auto					exception
DORI Distance W T 130.7 m (428.8 ft) Video Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ W 57.3 m (18.0 ft) (75.1 ft) (37.4 ft) (18.7 ft) Video encryption; Firmware encryption; Configuration 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 Network Protocol Pv4; IPv6; HTTP;TCP; UDP; ARP; RTSP; RTSP; RTMP; SMTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP Smart Codec Smart H.265+; Smart H.264+ Interconcrability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Close Focus Distance		1.2 m (3.9 ft)				Network	
DORI Distance W (188.0 ft) (75.1 ft) (37.4 ft) (18.7 ft) T 130.7 m 52.3 m 26.1 m 13 m (428.8 ft) (171.6 ft) (85.6 ft) (43 ft) Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Video (188.0 ft) (75.1 ft) (37.4 ft) (18.7 ft) (19.7 ft) (1		Lens	Detect	Observe	Recognize	Identify	Network Port	RJ-45 (10/100 Enhancement Base-T)
T 130.7 m 52.3 m 26.1 m 13 m (428.8 ft) (171.6 ft) (85.6 ft) (43 ft) Cyber Security Piper Securi		W					SDK and API	
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Network Protocol N		Т	130.7 m	52.3 m	26.1 m	13 m	Cyber Security	encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted
Interoperability UNVIF (Profile Syrrofile T); Cdi; Milestone; DHOP		ression					Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
	Smart Codeo		Smart H.265+; Smart H.264+				Interoperability	

User/Host

20 (Total bandwidth: 72 M)

5 Series | DH-IPC-HDBW5442E-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		

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); 5.1W (24 VAC); 5.2W (PoE) Max. power consumption (max. stream + IR LED + focus): 12.4 W (12 VDC); 11.9 W (24 VAC); 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		
F MD Comers	DH-IPC-HDBW5442E- ZE-OPAT	4 MP DHOP Vandal-proof IR Dome Network Camera		
5 MP Camera	IPC-HDBW5442E-ZE- OPAT	4 MP 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





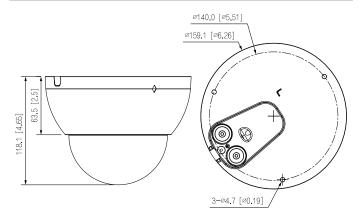
Pole mount

Mount adapter

PFB201C In-ceiling mount

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

Dimensions (mm[inch])



Rev 002.000