

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.

DHOP	Technical Specification					Main stream: 2688 × 1520 @(1 fps–30 fps)		
Plant				Video Framo Pata				
Septem Memory Septem Memo			1T computing power for enhanced performance			ance	video Frame Rate	*The values above are the max. frame rates of each
System System System System System Society System System System Society System System Society System	Flash		58M				Character Councility	
Multimedia Memory	System Memory		380M				Stream Capability	
DHOP Partners	Multimedia Memory		256M				Resolution	(1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 ×
Maps Set Name	DHOP Partners		TechnoAware, etc. (https://depp.dahuasecurity.com/				Bit Rate Control	
Max. Resolution 2688 (H × 1570 (V)	Camera						Video Bit Rate	·
ROM	Image Senso	or	1/1.8" CMOS				Day/Night	Auto (ICR)/Color/B/W
RAM	Max. Resolut	tion	2688 (H) × 1520 (V)				BLC	Yes
Scanning System Progressive Progressive Electronic Shutter Speed Auto/Manual 1/3 = 1/100,000 s Min. Illumination 0.003 Lux@F1.8 (Color, 30 RE) 0.0000 Lux@F1.8 (Color, 30 RE) 0.0000 Lux@F1.8 (EVM 30	ROM		1 GB				HLC	Yes
Cisch Shutter Speed Auto/Manual 1/3 =-1/100,000 s	RAM		128 MB				WDR	120 dB
Min. Illumination Discrimination Di	Scanning Sys	stem	Progressive					Yes
Min. Illumination	Electronic Sh	nutter Speed						1 7
Illumination Distance 50 m (164 ft) (R) Motion Detection OFF/ON (4 areas, rectangular)	Min. Illumina	ation	0.0003 Lux@F1.8 (B/W, 30 IRE)				Gain Control	
Illuminator On/Off Control Illuminator Number 3 (IR LED) Defog Ves Pan/TiltyRotation Range Pan: 0"-355" Tilt:0"-75" Rotation:0"-355" Tilt:0"-75" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Tilt:0"-75" Rotation:0"-755" Rotat	S/N Ratio		> 56 dB				Noise Reduction	3D NR
Pan: 0"-355" Image Rotation Pan: 0"-355" Pan: 0"	Illumination	Distance	50 m (164 ft) (IR)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan: 0"-355* Tilc0"-255*	Illuminator C	On/Off Control	Auto, manual				Region of Interest (RoI)	Yes (4 areas)
Pan/Titl/Rotation Range Tit.co = 75° Rotation.0° = 355° Image Rotation Cross of the privacy Masking Sareas	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 Event disconnection; iP conflict; illegal access; motion detection; voltage detection; vo	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) (18.7 ft) T 130.7 m 52.3 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+ Alarm Event Protice Autio Alarm Alarm Event	Lens Type		Motorized vari-focal				Privacy Masking	8 areas
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Field of View Horizontal: 113°-46 Vertical: 61°-26° Diagonal: 134°-53° Iris Control Auto Close Focus Distance Lens Detect Observe Recognize Recognize Identify T 130.7 m (428.8 ft) (75.1 ft) (75.1 ft) (75.6 ft) (85.6 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+ Alarm Event 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; voltage detection; voltage detection; voltage detection; external alarm; security exception Network Network Network Port 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 Network Protocol Network Protocol Network Protocol Smart Codec Smart H.265+; Smart H.264+ Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Focal Length						Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Field of View Vertical: 61*-26* Diagonal: 134*-53* Alarm Event Vertical: 61*-26* Diagonal: 134*-53* Auto Close Focus Distance 1.2 m (3.9 ft) DORI DISTANCE VERTICAL PROPERTY OF THE PR	Max. Apertu	re					Alarm	
Iris Control Auto Close Focus Distance 1.2 m (3.9 ft) Network Network 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 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 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) 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 ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	·		Horizontal: 113°-46 Vertical: 61°-26°				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio
Lens Detect Dobserve 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) 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 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 Smart H.265+; Smart H.264+ Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP	Iris Control		Auto					
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) (175.1 ft) (18.7 ft	Close Focus Distance		1.2 m (3.9 ft)				Network	
DORI W (188.0 ft) (75.1 ft) (37.4 ft) (18.7 ft) T (130.7 m 52.3 m (428.8 ft) (171.6 ft) (85.6 ft) (43 ft) Video Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Video (188.0 ft) (75.1 ft) (37.4 ft) (18.7 ft) (18.7 ft) (198.7 ft) (198.7 ft) (198.7 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 door; Trusted upgrade Network Protocol Network Protocol Smart H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; DHOP		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 Pipe Pipe Pipe Pipe Pipe Pipe		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 University Onvir (Profile Syrrofile T); CGI; Milestone; DHOP					4B; MJPEG (onl	y supported by	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		
Audio Input	1 channel (RCA 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 Comerc	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





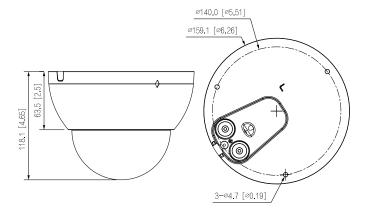
PFA152-E Pole mount

PFA101 Mount adapter

PFB201C In-ceiling mount

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

Dimensions (mm[inch])



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