

DH-IPC-HDBW7442H-ZFR

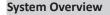
4MP AI IR Dome Network Camera



20

·4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition

- · Max outputs 4MP (2688×1520) @50 fps/60 fps
- \cdot H.264&H.265 coding, high compression ration \cdot Wide dynamic, day/night, 3D noise reduction, AWB, HLC, BLC
- · ROI, SVC, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- With deep learning algorithm, it supports people counting, face recogni tion, perimeter protection etc
- · 24V AC/PoE/12V DC power support
- \cdot Five streams for three-channel HD video
- · IP67, IK10 protection grade



With advanced deep learning algorithm, Dahua Ultra AI series network camera supports various intelligent functions and satisifies the requirements in different scenes. The camera can acurately detect person, vehicle, and non-motor vehicle, face, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10.

Functions

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Smart Codec

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

Privacy Protection

Dahua Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.



Ultra-AI Series | DH-IPC-HDBW7442H-ZFR

Technical Specification

Face Recognition

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Camera					
Image Sensor		1/1.8" 4Megapixel progressive CMOS			
Effective Pixels		2688 (H) × 1520 (V)			
ROM		16 GB			
RAM		2 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Min. Illumination		Color:0.001 Lux@F1.2, B/W:0 Lux@F1.2			
IR Distance		Distance up to 40 m (131.23 ft)			
IR On/Off Control		Auto			
IR LEDs Number		3 (IR LEDs)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Optical Zoom		>4×			
Focal Length		2.7mm-12mm			
Max. Aperture		F1.2			
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)			
Iris Type		Auto aperture			
Focus Control		Auto/Manual Fine Focus Adjustment			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	60.1 m (187.19 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)
	Т	128.6 m (421.92 ft)	51.4 m (168.64 ft)	25.7 m (84.32 ft)	12.8 m (41.99 ft)
Smart even	t				
General IVS Analytics		Abandoned object, moving object			
Professional Intelligent					
Perimeter Protection		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.			

Face recognition, track, priority, snapshot, face

Face angle filter

200,000 faces

Priority time setting

Management of 5 group face libraries

enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses,

expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard Face matting setting: face, single inch photo Two snapshot strategies: priority snapshot, recognition

Single person register and person register in batch Face recognition and similarity setting

Max supports face contrast in face library with

People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/ annual statistics, No. in area	
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.	
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.	
Video		
Video Compression	H.265, H.264, H.264H, H.264B, MJPEG	
Smart Codec	Yes	
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) sub stream 1: 704 × 576 (1–25/30 fps) sub stream 2: 1920 × 1080 (1–25/30 fps) sub stream 3: 1920 × 1080 (1–25/30 fps) sub stream 4: 704 × 576 (1–25/30 fps)	
Stream Capability	5 streams	
Resolution	4M (2688 × 1520), 3M (2304 × 1296), 1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 32 Kbps–10240 Kbps H.265: 12 Kbps–10240 Kbps	
Aspect Ratio	16:9/9:16	
Video Quality Adjustment	Multiple compression levels up to 6 levels	
BLC	Yes	
WDR	140 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest(Rol)	Yes (4 areas)	
Electronic Image Stabilization(EIS)	Yes	
Smart IR	Yes	
Defog	Yes	
Image Rotation	0°/90°/180°/270°	
Mirror	Yes	
Privacy Masking	4 areas	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly, audio detection.	
Audio		
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723	
Audio Detection	Support	

Ultra-Al Series | DH-IPC-HDBW7442H-ZFR

NetworkNet-45 (10/100/1000 Base-T)ProtocolRTTP, HTps; 8021, x; TCP, ARP, PTSP, RTP, UDP, RTCP, Sc0, UPP, VTP; SFTP, RTMP; Genetec, benjourInteroperabilityVesScene Self-adaptationYesUser/HostCl (Total bandwidth: 80 M.)Isteraming MethodInicast/MulticastEdge StorageFTP; Nicro SD card (256 G); NAS; SFTPBrowserScene Self-adaptationManagement SoftwareSmart PSS, DSS PRO, NVR, IVSS, DMSSMobile PhoneIO, Sch droidCertificationCE-LVD: ENGOSO-1 CSC: 47 CFR FCC Part 15, Subpart 8 DCMANG 2000 SCORE 2000 S	Network			
ProtocolSMTP, FTP, DHCP, DNS; DDNS, PDPP6; IPV4/v6; SMMP; Genetec;BonjourInteroperabilityONVIF (Profile S/Profile G/Profile T); CGI; P2PScene Self-adaptationVesUser/Host20 (Total bandwidth: S0 M.)Edge StorageFTP; Micro SD card (256 G); NAS; SFTPEdge StorageFTP; Micro SD card (256 G); NAS; SFTPBrowserCivrision later than Chrome 42, Firefox: Versions later than Chrome 42, Circe Chrome 15, Subpart 8 UL/CU: UL00950-1 CAN/CASC 22, No.60950-1-CAN/CASC 22, Audio InputAudio Input-Audio Input-Audio Input-Audio Input-Auron Output-Auron Output-Power120 LO/24V AC/POEForwerSacia power consumption: 5.4W (12V DC); SW (24V AC Chrome 20, SW (12V DC); SW (24V AC POVERPower Consumption-Auron Output-Auron Cher C-40°F	Network	RJ-45 (10/100/1000 Base-T)		
Scene Self-adaptationYesUser/Host20 (Total bandwidth: 80 M.)Streaming MethodUnicast/MulticastEdge StorageFTP; Micro SD card (256 G); NAS; SFTPBrowserErsions later than IE9 Chrome: Versions later than Chrome 42, Firefox: Versions later than E1 Chrome: Version: Solar (Chrome: Version: Solar (Chrom	Protocol	SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;		
International of the second	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P		
Arran and a constructionStreaming MethodUnicast/MulticastEdge StorageFTP; Micro SD card (256 G); NAS; SFTPBrowserE: Versions later than FIP Chrome: Versions later than Firefox 48.0.2,Management SoftwareSmart PSS, DSS PRO, NVR, IVSS, DMSSMobile PhoneIDS, AndroidCertificationE: E-UND: EN60950-1 CE-E-MC: Electromagnetic Compatibility Directive 2014/30/EU FC: ATC RF ECP art 15, Subpart B UL/CUI: ULG0950-1 CAN/CSA C22.2 No.60950-1-OPPortIBI rate: 1200 bps-115200 bps)Audio InputIBI rate: 1200 bps-115200 bps)Audio InputAudio Interface: 1/1 channel In/OutAudio OutputCahannel In: SmA SV DC 2 channel out: 1000mA 30V DC/S00mA S0V ACPowerISV DC/24V AC/POEPower ConsumptionSalic power consumption: 5.4W (12V DC); SV (24V AC active power); 35W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE); Max power consumption (CR switch, and IR fuil intensity: 16.7W (12V DC); SV (24V AC active power); 19W (POE);forger Temperature40°C to +60°C (40°F to +140°F)ipperating Temperature167, It30Grange Temperature167, It30<	Scene Self-adaptation	Yes		
First Number of the second	User/Host	20 (Total bandwidth: 80 M.)		
Prove the second seco	Streaming Method	Unicast/Multicast		
Browser Chrome: Versions later than Firefox 48.0.2, Management Software Smart PSS, DSS PRO, NVR, IVSS, DMSS Mobile Phone IOS, Android Certification E-1VD: ENGOSD-1 Certifications CE-1VD: ENGOSD-1 Certifications CE-1VD: ENGOSD-1 Certifications CE-1VD: ENGOSD-1 Certifications CE-1VD: ENGOSD-1 Staff Certifications Port CC: 47 CFR FCC Part 15, Subpart B Audio Input Audio Interface: 1/1 channel In/Out Audio Output Audio Interface: 1/1 channel In/Out Alarm Output Channel In: SmA SV DC Power Channel Out: 1000mA 30V DC/S00mA 50V AC Power Supply ISt power consumption: S.4W (12V DC); SW (24V AC Power Consumption Sasic power consumption (ICR switch, and IR full intensity): 16.7W (12V DC); ST/W (24V AC active power); 4.9W (POE); Soroge Temperature 4.0°C to +60°C (-40°F to +140°F) Operating Temperature 4.0°C to +60°C (-40°F to +140°F) Ingress Protection 167.1K10 Structure Informations Dimensions 169.1H10 Solog (3.1Hb) Goog (3.1bb)	Edge Storage	FTP; Micro SD card (256 G); NAS; SFTP		
Nobile PhoneIOS, AndroidCertificationIOS, AndroidCertificationsCE-LVD: EN609S0-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU ICC 2014/30/EU ICC 2015/2016/S014 ICC 2016/S014/S014/S014/S014/S014/S014/S014/S014	Browser	Chrome: Versions later than Chrome 42,		
Output Provide the set of the s	Management Software	Smart PSS, DSS PRO, NVR, IVSS, DMSS		
Certifications CE-LVD: EN60950-1 CC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 Port RS-485 1 (Bit rate: 1200 bps-115200 bps) Audio Input Audio Interface: 1/1 channel In/Out Audio Output Audio Interface: 1/1 channel In/Out Alarm Input Audio Interface: 1/1 channel In/Out Alarm Output Certifications 30V DC/500mA 50V AC Alarm Output Certification 30V DC/500mA 50V AC Power 2 channel In: SmA 5V DC Power Supply 12V DC/24V AC/POE Power Supply Basic power consumption: 5.4W (12V DC); 5W (24V AC active power); 4.5W (POE); Power Consumption Sasic power consumption: 5.4W (12V DC); 5W (24V AC active power); 15.6W (POE); Power Consumption Sasic power consumption: 0(ICR switch, and IR full printensity): 16.7W (12V DC); 15.7W (24V AC active power); 15.6W (POE); Power Consumption Sasic power consumption (ICR switch, and IR full printensity): 16.7W (12V DC); 15.7W (24V AC active power); 15.6W (POE); Porter Power Consumption Sasic power consumption (ICR switch, and IR full printensity): 16.7W (12V DC); 15.7W (24V AC active power); 15.6W (POE); Storage Temperature -40°C to +60°C (-40°F to +140°F) Info Ingress Protection IP67, IK10 Info	Mobile Phone	IOS, Android		
Certifications CF-EMC: Electromagnetic Compatibility Directive Sci 2014/30/EU Sci 2014/30/EU Sci 2014/30/EU Sci 2014/30/EU Sci 2014/30/EU Sci 2016/30.00000000000000000000000000000000000	Certification			
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Audio NutputAudio Interface: 1/1 channel In/OutAlarm Input3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V ACAlarm Output3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V ACPower12V DC/24V AC/POEPower Supply12V DC/24V AC/POEPower Consumption5.4W (12V DC); 5W (24V AC active power); 4.9W (POE); max power consumption (CR switch, and IR full intensity): 16.7W (12V DC); 15.7W (24V AC active power); 15.6W (POE);Forvironment40°C to +60°C (-40°F to +140°F)Operating Temperature-40°C to +60°C (-40°F to +140°F)Operating Temperature1967, IK10Ingress Protection1967, IK10Structure129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)Net Weight1500g (3.31lb)Gross Weight1600 g (3.53 lb)	RS-485	1 (Bit rate: 1200 bps-115200 bps)		
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Operating Temperature -40°C to +60°C (-40°F to +140°F) Operating Humidity <95%	Power Consumption	active power); 4.9W (POE); Max power consumption (ICR switch, and IR full intensity): 16.7W (12V DC); 15.7W (24V AC active		
Note of the second s	Environment			
Storage Temperature-40°C to +60°C (-40°F to +140°F)Ingress ProtectionIP67, IK10StructureIP67, IK10Dimensions129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)Net Weight1500g(3.31b)Gross Weight1600 g (3.53 lb)	Operating Temperature	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection IP67, IK10 Structure I29.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H) Net Weight 1500g(3.31lb) Gross Weight 1600 g (3.53 lb)	Operating Humidity	≤95%		
Structure 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H) Net Weight 1500g(3.31lb) Gross Weight 1600 g (3.53 lb)	Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Dimensions 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H) Net Weight 1500g(3.31lb) Gross Weight 1600 g (3.53 lb)	Ingress Protection	IP67, IK10		
Net Weight 1500g(3.31lb) Gross Weight 1600 g (3.53 lb)	Structure			
Gross Weight 1600 g (3.53 lb)	Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)		
	Net Weight	1500g(3.31lb)		
Installation Ceiling Mount; side Mount; pole Mount	Gross Weight	1600 g (3.53 lb)		
	Installation	Ceiling Mount; side Mount; pole Mount		

Ordering Information				
Туре	Part Number	Description		
4MP Camera	DH-IPC- HDBW7442HP-ZFR	4MP AI IR Dome Network Camera		
	DH-IPC- HDBW7442HN-ZFR	4MP AI IR Dome Network Camera		
	IPC- HDBW7442HP-ZFR	4MP AI IR Dome Network Camera		
	IPC- HDBW7442HN-ZFR	4MP AI IR Dome Network Camera		
Accessories	PFA773	Wall Mount		
	PFB210W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA101	Wall Mount		
	PFB300C	Ceiling Mount		

Accessories









PFB210W

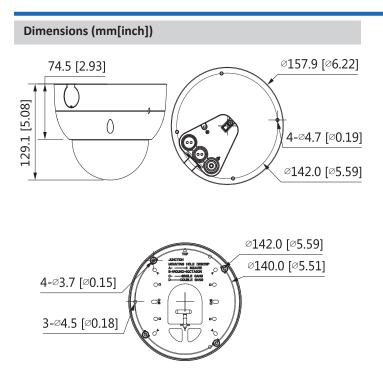
PFA152-E





Ceiling Mount Wall Mount Wall Mount PFA773 PFB210W J 9 Wall Mount Hang Mount PFB300C+PFA101 Pole Mount PFB210W PFB210W+PFA152-E æ ¢۵,

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