

DH-IPC-HDBW7442H-ZFR

4MP AI IR Dome Network Camera



- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Max outputs 4MP (2688×1520) @50 fps/60 fps
- H.264&H.265 coding, high compression ration · 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 recognition, perimeter protection etc
- 24V AC/PoE/12V DC power support
- Five streams for three-channel HD video
- IP67, IK10 protection grade

System Overview

With advanced deep learning algorithm, Dahua Ultra AI series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately 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

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.

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.

Technical Specification									
Camera						People Counting			
Image Sensor		1/1.8” 4Megapixel progressive CMOS							
Effective Pixels		2688 (H) × 1520 (V)				Video Metadata			
ROM		16 GB							
RAM		2 GB				Intelligent Search			
Scanning System		Progressive							
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s							
Min. Illumination		0.001 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						Video			
Lens Type		Motorized vari-focal				Video Compression			
Mount Type		Module interface				Smart Codec			
Focal Length		2.7mm-12mm							
Max. Aperture		F1.2				Video Frame Rate			
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)							
Iris Type		Auto aperture				Stream Capability			
Close Focus Distance		W: 1 m (3.28ft) T: 2.5 m (8.20ft)				Resolution			
DORI Distance	Lens	Detect	Observe	Recognize	Identify				
	W	60.1 m (187.19 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)				
	T	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 event						Bit Rate Control			
General IVS Analytics		Abandoned object, moving object				Video Bit Rate			
Professional, intelligent						Day/Night			
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.				BLC			
Face Recognition		Face recognition, track, priority, snapshot, face 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 Face angle filter Priority time setting Management of 5 group face libraries Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces				WDR			
						White Balance			
						Gain Control			
						Noise Reduction			
						Motion Detection			
						Region of Interest(Rol)			
						Electronic Image Stabilization(EIS)			
						Smart IR			
						Defog			
						Image Rotation			
						Mirror			
						Privacy Masking			
Audio									
Audio Compression		G.711a; G.711Mu; G.726; AAC; G.723							
Network									
Network		RJ-45 (10/100/1000 Base-T)							
Protocol		HTTP; Htpps; 8021.x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec;Bonjour							

Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P
Scene Self-adaptation	Yes
User/Host	20 (Total bandwidth: 80 M.)
Edge Storage	FTP; Micro SD card (256 G); NAS; SFTP
Browser	IE: Versions later than IE9 Chrome: Versions later than Chrome 42, Firefox: Versions later than Firefox 48.0.2,
Management Software	Smart PSS, DSS PRO, NVR, IVSS, DMSS
Mobile Phone	IOS, Android

Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Port

RS-485	1 (Bit rate: 1200 bps–115200 bps)
Audio Input	Audio Interface: 1/1 channel In/Out
Audio Output	
Alarm Input	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC
Alarm Output	

Power

Power Supply	12V DC/24V AC/POE
Power Consumption	Basic power consumption: 5.4W (12V DC); 5W (24V AC active power); 4.9W (POE); Max power consumption (ICR switch, and IR full intensity): 16.7W (12V DC); 15.7W (24V AC active power); 15.6W (POE);

Environment

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

Structure

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)
Installation	Ceiling Mount; side Mount; pole Mount

Ordering Information		
Type	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

Optional:



PFA773



PFB210W



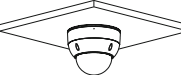
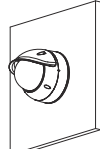
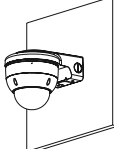
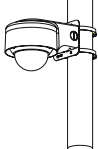
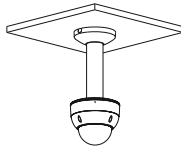
PFA152-E



PFA101



PFB300C

Ceiling Mount	Wall Mount	Wall Mount
	PFA773	PFB210W
		
Wall Mount	Pole Mount	Hang Mount
PFB210W	PFB210W+PFA152-E	PFB300C+PFA101
		

Dimensions (mm[inch])

