

DH-IPC-HFW7442H-ZFR

4MP AI IR Bullet Network Camera





System Overview

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

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.

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.

- · 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 recognition, perimeter protection etc
- · 24V AC/PoE/12V DC power support
- · Five streams for three-channel HD video
- · IP67, IK10 protection grade











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.

Privacy Protection

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



Technical	Specification	1					Support human hadis human face are the state
Camera						Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
Image Sensor		1/1.8" 4Meg	1/1.8" 4Megapixel progressive CMOS				
Effective Pixels		2688 (H) × 1520 (V)				People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/ annual statistics, No. in area
ROM		16 GB					Work together with Smart NVR to perform refine
RAM		2 GB				Intelligent Search	intelligent search, event extraction and merging to event videos.
Scanning Syst	Scanning System		Progressive			Video	
Electronic Shu	utter Speed	Auto/Manual 1/3 s–1/100000 s				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG
Min. Illuminat	ion	0.001 Lux@	F1.2			Smart Codec	Yes
IR Distance		Distance up to 60m (196.85 ft)					Main Stream: 2688 × 1520 (1–50/60 fps)
IR On/Off Control		Auto/Manual				Video Frame Rate	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)
IR LEDs Numb	er	4 (IR LEDs) Pan: 0°–360°				Stream Capability	5 streams
Pan/Tilt/Rotation Range Lens		Tilt: 0°–90° Rotation: 0°–360°		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		
Lens Type		Motorized vari-focal			× 240)		
Mount Type		Module interface				Bit Rate Control	CBR/VBR
Focal Length		2.7–12 mm		Video Bit Rate	H.264: 32–10240 kbps H.265: 12–10240 kbps		
Max. Apertur	e	F1.2				Day/Night	ICR switch
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)				BLC	Yes
Iris Type		Auto apertu	re			WDR	140 dB
Close Focus D	istance	W: 1 m (3.28ft) T: 2.5 m (8.20ft)				White Balance	Auto/aatural/street lamp/outdoor/manual/regional custom
	Lens	Detect	Observe	Recognize	Identify	Gain Control	Auto/Manual
DORI	W	60.1 m	24 m	12 m	6 m	Noise Reduction	3D DNR
Distance		(187.19 ft) 128.6 m	(78.74 ft) 51.4 m	(39.37 ft) 25.7 m	(19.69 ft) 12.8 m	Motion Detection	OFF/ON (4 areas, rectangular)
	Т	(421.92 ft)	(168.64 ft)	(84.32 ft)	(41.99 ft)	Region of Interest(RoI)	Yes (4 areas)
Smart even						Electronic Image Stabilization(EIS)	Yes
General IVS A		Abandoned object, moving object				Smart IR	Yes
Professiona	ıl, intelligent					Defog	Yes
Perimeter Pro	tection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering			detection	Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution or below.)
		detection, and people gathering.				Mirror	Yes
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			nt face	Privacy Masking	4 areas
					oute extract,	Audio	
					r, surprise,	Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
					noto	Network	
					nagement of 5 er and person	Network	RJ-45 (10/100/1000 Base-T)
						Protocol	HTTP; Https; 8021.x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour

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Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P	
Scene self-adaptation	Yes	
User/Host	20	
Edge Storage	FTP; Micro SD card (256 G); NAS; SFTP	
Browser	IE: Versions later than IE9 Google: 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

Port

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

Power

Power Supply	12V DC/24V AC/POE
Power Consumption	<17.3W

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)	
Ingress Protection	IP67, IK10	

Structure

Casing	Metal + Plastic
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.39" × 4.27" × 3.66") (L × W × H)
Net Weight	1600g (3.53 lb)
Gross Weight	2400g (5.29 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW7442HP-ZFR	4MP AI IR Bullet Network Camera		
ANAD Company	IPC-HFW7442HP- ZFR	4MP AI IR Bullet Network Camera		
4MP Camera	DH-IPC- HFW7442HN-ZFR	4MP AI IR Bullet Network Camera		
	IPC-HFW7442HN- ZFR	4MP AI IR Bullet Network Camera		
Accessories (optional) PFA154		Pole Mount		

Accessories

Optional:



PFA154

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
	9	

Dimensions (mm/inch)







