

DH-IPC-HFW5842H-ZHE

8MP Pro AI IR Bullet Network Camera



- 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Max outputs 8MP(3840×2160)@25fps/30fps ; 2MP(1920×1080)@50fps
- 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 detection, perimeter protection.
- 24V AC/PoE/12V DC power support
- Three streams for two-channel HD video
- IP67, IK10 protection grade



System Overview

With starlight solution and deep learning algorithm, Dahua Pro AI series network camera has various intelligent functions, including face detection, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10.

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

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.

Technical Specification						Video	
Camera						Video Compression	H.265, H.264,H.264H,H.264B, MJPEG
Image Sensor	1/1.8"8Megapixel progressive CMOS					Smart Codec	Yes
Effective Pixels	3840 (H) × 2160 (V)					Video Frame Rate	Main Stream: 3840×2160(1–25/30fps) or 1920 x 1080 (1-50 fps)
ROM	4 GB					Stream Capability	3 streams
RAM	2 GB					Resolution	8M(3840×2160), 6M(3072×2048/3072×1728), 5M (2592 × 1944), 4M (2688 × 1520), 3M (2048 × 1536/2304×1296), 1080p(1920×1080), 1.3M(1280 ×960), 720p(1280×720), D1 (704×576/704×480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Scanning System	Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s					Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps
Min. Illumination	0.003 Lux@F1.2					Day/Night	ICR switch
IR Distance	Distance up to 60m (196.85 ft)					BLC	Yes
IR On/Off Control	Auto/Manual					WDR	120 dB
IR LEDs Number	4 (IR LEDs)					White Balance	Auto/natural/street lamp/outdoor/manual/regional Custom
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Gain Control	Auto/Manual
Lens						Noise Reduction	3DNR
Lens Type	Motorized vari-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Mount Type	Module interface					Region of Interest(Rol)	Yes (4 areas)
Focal Length	2.7–12 mm					Electronic Image Stabilization(EIS)	Yes
Max. Aperture	F1.2					Smart IR	Yes
Field of View	Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)					Defog	Yes
Iris Type	Auto aperture					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution or below.)
Close Focus Distance	W: 1 M (3.29ft) T: 2.5 M (8.20ft)					Mirror	Yes
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	4 areas
	W	87.2 m (286.09 ft)	34.9 m (114.50 ft)	17.4 m (57.09 ft)	8.7 m (28.54 ft)		
	T	186.7 m (612.53 ft)	74.7 m (245.07 ft)	37.3 m (122.38 ft)	18.6 m (131.23 ft)		
Smart event						Audio	
General IVS Analytics	Abandoned object, moving object					Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
Professional, intelligent						Network	
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.					Network	RJ-45 (10/100 Base-T)
Face Detection	Support face image capture					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
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P
People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/annual statistics, No. in area					Scene self-adaptation	Yes
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					User/Host	20 (Total bandwidth: 160 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; 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

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
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	1.6 kg (3.53 lb)
Gross Weight	2.4 kg (5.29 lb)

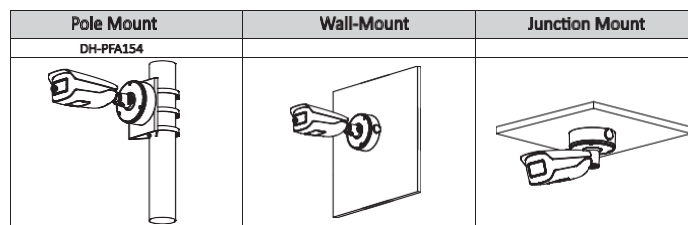
Type	Part Number	Description
8MP Camera	DH-IPC-HFW5842HP-ZHE-2712F-DC12AC24V	8MP AI IR Bullet Network Camera
	DH-IPC-HFW5842HN-ZHE-2712F-DC12AC24V	8MP AI IR Bullet Network Camera
	IPC-HFW5842HP-ZHE-2712F-DC12AC24V	8MP AI IR Bullet Network Camera
	IPC-HFW5842HN-ZHE-2712F-DC12AC24V	8MP AI IR Bullet Network Camera
Accessories (optional)	PFA154	Pole Mount

Accessories

Optional:



PFA154



Dimensions (mm/inch)

