

DH-IPC-HDBW5842H-ZHE

8MP Pro AI IR Dome Network Camera



- 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Max outputs 8MP (3840×2160) @ 25 fps/30 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 detection, perimeter protection.
- Alarm: 3 in, 2 out, audio: in, out, RS-485, BNC, 256 G SD card, built-in ports, without cables
- 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						
Camera						
Image Sensor		1/1.8” 8Megapixel progressive CMOS				
Effective Pixels		3840 (H) × 2160 (V)				
ROM		4 GB				
RAM		2 GB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.003 Lux@F1.2				
IR Distance		Distance up to 40 m (131.23 ft)				
IR On/Off Control		Auto/Manual				
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				
Mount Type		Module interface				
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				
Close Focus Distance		w: 1 m (W: 3.28 ft) T: 2.5 m (T: 8.20 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	87.2 m (286.09 ft)	34.9 m (144.50 ft)	17.4 m (57.08 ft)	8.7 m (28.54 ft)	
	T	186.7 m (612.53 ft)	74.7 m (245.08 ft)	37.3 m (122.37 ft)	18.6 m (61.02 ft)	
Smart event						
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 Detection		Support face image capture				
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				
People Counting		Count the entry number and exit number , display and output daily/monthly/annual report Count people in area, display and output daily/ monthly/annual report				
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: 3840 × 2160 (1–25/30 fps) Sub Stream 1: 704 × 576 (1–25/30 fps) Sub Stream 2: 1920 × 1080 (1–25/30 fps)
Stream Capability	3 streams
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–16384 Kbps H.265: 12 Kbps–16384 Kbps
Day/Night	ICR switch
BLC	Yes
WDR	120 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° (Support 90°/270° with 1080p resolution or below.)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
Network	
Network	RJ-45 (10/100 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: 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
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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	<15.7W

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

Casing	Metal + Plastic
Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)
Gross Weight	1600 g (3.53 lb)
Net Weight	1500 g (3.31 lb)

Ordering Information		
Type	Part Number	Description
8MP Camera	DH-IPC-HDBW5842HP-ZHE-2712F-DC12AC24V	8MP AI IR Dome Network Camera
	DH-IPC-HDBW5842HN-ZHE-2712F-DC12AC24V	8MP AI IR Dome Network Camera
	IPC-HDBW5842HP-ZHE-2712F-DC12AC24V	8MP AI IR Dome Network Camera
	IPC-HDBW5842HN-ZHE-2712F-DC12AC24V	8MP 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



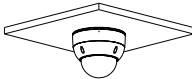
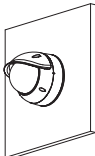
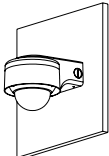
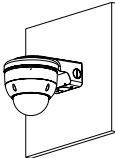
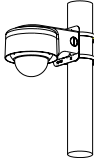
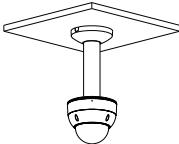
PFA152-E



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])

