

DH-IPC-HFW5842H-ZHE

8MP IR Bullet WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, 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 (Supported by some select models).

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 reports to meet your requirements.

Smart H.265+ & Smart H.264+

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.

- \cdot 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- \cdot Max outputs 8MP (3840 × 2160) @25fps/30fps
- \cdot H.264&H.265 coding, high compression ration
- \cdot Wide dynamic, day/night, 3D NR, AWB, HLC, BLC
- · ROI, SVC, SMARTH.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- With deep learning algorithm, it supports people counting, face detection, perimeter protection etc
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 512 GB SD card
- 24V AC/12V DC/PoE power supply (the power ports are different depending on the power supply)
- · Multiple streams HD video
- · IP67, IK10 protection grade,
- · Anti-corrosion coating(optional)
- · 12V DC power output, max. current 165mA, easy for installation



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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

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.



Wiz Mind | DH-IPC-HFW5842H-ZHE

Technical Specification

Camera

Camera					
Image Sensor		1/1.8"8Megapixel progressive CMOS			
Max. Resolution		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 (Color,30IRE) 0.0003 Lux@F1.2 (B/W,30IRE) 0 Lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		60 m (196.85 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Module interface			
Focal Length		2.7 mm-12 mm			
Max. Apertur	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 (3.29ft) T: 2.5 M (8.20ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	т	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					

Smart event

IVS	Abandoned object, moving object			
Professional, intelligent				
IVS (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	Face detection, track, priority, snapshot; Upload Optimized snapshot picture; 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), Mouth mask beard; Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal.			

People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/ daily reports. Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions		
Intelligent Search	Worktogether 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(only supported by sub stream)		
Smart Codec	Smart H.265+/ Smart H.264+		
Video Frame Rate	Main Stream: 3840×2160(1–25/30fps) Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps)		
Stream Capability	Multiple streams for 10 viewing Profiles		
Resolution	$\begin{array}{l} 8M(3840\times2160), 6M(3072\times2048/3072\times1728),\\ 5M(2592\times1944), 4M(2688\times1520), 3M(2048\times1536/2304\times1296), 1080p(1920\times1080), 1.3M(1280\times960), 720p(1280\times720), D1(704\times576/704\times480),\\ VGA(640\times480), CIF(352\times288/352\times240) \end{array}$		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene self-adaptation (SSA)	Yes		
White Balance	Auto/natural/street lamp/outdoor/manual/regional Custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(Rol)	Yes (4 areas)		
Electronic Image Stabilization(EIS)	Yes		
Smart Illumination	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; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandonedobject; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people counting exception detection; safety exception, Queue Management		



Wiz Mind | DH-IPC-HFW5842H-ZHE

Network

Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade			
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP; Bonjour			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP			
User/Host	20 (Total bandwidth: 160 M.)			
Storage	FTP; Micro SD card (256 G); NAS; SFTP			
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	IOS, Android			
Certification				
Certifications	CE-LVD: EN62368-1,EN60950-22 (optional) CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL:UL60950-1CAN/CSAC22.2No.60950-1-07,UL 50E NEMA Type 4X (optional)			
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 Power Consumption	12V DC/24V AC/PoE+ (802.3at); ePoE Basic power consumption: 3.7W (12V DC); 5.7W(24V AC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 12.2W (12V DC);17.3W(24V AC); 17.1W (PoE) Heat power consumption: 3.3W (12V DC);5.5W(24V AC); 5.5W (PoE)			
Environment				
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH			
Storage conditions	-40°C to +60°C (-40°F to +140°F)			
Protection Grade	IIP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)			
Structure				
Casing	Metal + Plastic			
Dimensions	340.1mm×108.5mm×92.9mm (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)			

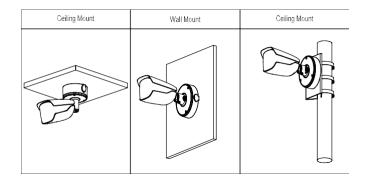
Ordering Information				
Туре	Part Number	art Number Description		
8MP Camera	DH-IPC- HFW5842HP-ZHE- 2712F-DC12AC24V	8MPIRBulletWizMindNetworkCamera,PAL		
	DH-IPC- HFW5842HN-ZHE- 2712F-DC12AC24V	8MPIR Bullet WizMind Network Camera, NTSC		
	IPC-HFW5842HP- ZHE-2712F- DC12AC24V	8MPIRBulletWizMindNetworkCamera,PAL		
	IPC-HFW5842HN- ZHE-2712F- DC12AC24V	8MPIR Bullet WizMind Network Camera, NTSC		
Accessories (optional)	PFA154	Pole Mount		

Accessories

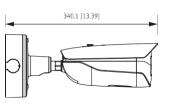
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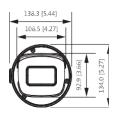


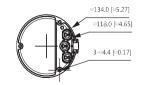
PFA154



Dimensions (mm/inch)







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