

DH-IPC-HFW5442E-Z4E

4MP IR Vari-focal 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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 8 mm-32 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 120 m
- · Micro SD memory, IP67, IK10













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/daily reports to meet your requirements.

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.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							General Intelligence		
Camera							Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					33	conflict, Illegal Access,Storage anomaly	
Max. Resolution		2688 (H) x 1520 (V)					General Intelligence	Object Abandoned/Missing	
RAM/ROM		1 GB/128 MB					Heat Map	Yes	
Scanning System		Progressive					Video		
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)	
S/N Ratio		> 56 dB					Smart Codec	Smart H.265+/ Smart H.264+	
Minimum Illumination		0.002 Lux@F1.6					Streaming Capability	3 Streams	
Illumination Distance		Distance up to 120 m (394 ft)					Resolution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)	
Illuminator On/Off Control		Auto/ Manual							
Illuminator Number Lens		4(IR LED)					Frame Rate	Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)	
Lens Type		Motorized vari-focal						Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)	
Mount Type		Board-in						Third Stream: 1080P (1 fps–16 fps)	
Focal Length		8 mm-32 mm					Bit Rate Control	CBR/VBR	
Max. Aperture		F1.6(Constant F1.6 throughout the zoom range)					Bit Rate	H.264: 32 Kbps— 8192 Kbps H.265: 19 Kbps— 8192 Kbps	
Angle of View		H: 43°–15°, V:23°–8°					Day/Night	Auto(ICR) / Color / B/W	
Aperture Type		Auto (HALL)					BLC Mode	BLC / HLC / WDR (140 dB)	
Close Focus Distance		2.5 m-6.0 m (8.20 ft-19.69 ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto/Manual	
DORI Distance	W	151m(495ft)	60.7m(199ft)	30.3m(99ft)	15.1m(49ft)		Noise Reduction	3D DNR	
	Т	400m(1312ft)	160m(525ft)	80m(262ft)	40m(131ft)		Motion Detection	Off / On (4 Zone, Rectangle)	
Pan/Tilt/Rota	Pan/Tilt/Rotation						Region of Interest	Off / On (4 Zone)	
Pan/Tilt/Rotation Range		Pan:0°-360°; Tilt:0°-90°; Rotation:0°-360°					Electronic Image Stabilization (EIS)	Yes	
Artificial Inte	Artificial Intelligence						Smart Illumination	Yes	
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face				Defog	Yes		
						Flip	0°/90°/180°/270°		
Face Detection						Mirror	Off / On		
			matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization				Privacy Masking	Off / On (4 Area, Rectangle)	
		snapshot, quality priority; face angle filter; optimization time setting				Audio			
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions					Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723	
		support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				Alarm			
People Counting		Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm					Alarm Event	No SD card;SD card full;SD card error;network disconnection;IP conflict;illegal access;motion detection;video tampering;Defocus Detection;scene changing;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting;face detection;voltage detection;People counting in area;Stay alarm;People No. exception detection;Queue Management	

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Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCF;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMI		
Interoperability	ONVIF(Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P		
User/Host	20 Users		
Storage	NAS;FTP;SFTP;Dahua Cloud Micro SD card 256 GB		
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)		
Management Software	Smart PSS, DSS, DMSS		
Mobile Phone	iOS, Android		
Certifications			
Certifications	CE-LVD: EN62368-1 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		
Interface			
Audio Interface	1/1 channel In/Out		
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC		
Electrical			
Power Supply	DC 12V (±30%), PoE (802.3af)		
Power Consumption	<10.9W		
Environmental			
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH		
Storage Conditions	-40° C to +60° C (-40° F to +140° F)		
Protection Grade	IP67,IK10		
Construction			
Casing	Metal, plastic		
Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")		

Ordering Information							
Type	Part Number	Description					
	DH-IPC- HFW5442EP-Z4E	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL					
4MP camera	DH-IPC- HFW5442EN-Z4E	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC					
	IPC-HFW5442EP- Z4E	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL					
	IPC-HFW5442EN- Z4E	4MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC					
Accessories (optional)	PFA152-E PFA121	Pole mount Junction Box					

Accessories

Optional:







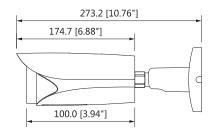
PFA152-E Pole Mount

ePoE Over Coax Converter

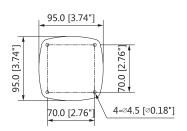
PFA121 Junction Box

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])







Net Weight

Gross Weight

1.11 Kg (2.44 lb)

1.51 Kg (3.33 lb)