

DH-IPC-HFW5242E-ZE-MF

2MP 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" 2Megapixel progressive scan CMOS
- · ROI, SMART H.264 +/H.265+,AI H.264/H.265, flexible coding, appli cable to various bandwidth and storage environments
- · 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-12.0 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50 m
- · Micro SD memory, IP67, IK10
- · SMD Plus













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's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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.

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 S	pecification							
Camera							Support the counting of enter number, leave number, and pass number, and displaying and	
Image Sensor		1/1.8"CMOS					People Counting	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.
Max. Resolution		1920 (H) × 1080 (V)						
RAM		1 GB						Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm
ROM		128 MB						
Scanning System		Progressive					Conoral Intelligence	
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/ 100,000 s					General Intelligence	Motion detection, Video tampering , Scene
S/N Ratio		> 56 dB					Event Trigger	changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly
Minimum Illumination		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)					IVS	Abandoned object; missing object
Illumination Distance		50 m (164 ft)					Heat Map	Yes
Illumination Distance Illuminator On/Off Control							Video	H.265,H.264,H.264B,H.264H,
		Auto/Manual					Compression	MJPEG (only supported by the sub stream)
Illuminator Number		4 (IR LED)					Smart Codec	Smart H.265+/ Smart H.264+
Lens							Streaming Capability	3 Streams
Lens Type Mount Type		Motorized vari-focal Board-in					Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Focal Length		2.7 mm-12.0	2.7 mm-12.0 mm					Main Stream: 1920 × 1080 (1 fps–50/60 fps)
Max. Aperture Angle of View		F1.8 Horizontal: 114°–47°, Vertical: 62°–26°					Frame Rate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps) Third Stream: 1080P (1 fps-25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Aperture Type		Auto					Bit Rate Control	CBR/VBR
Close Focus Distance		1.2 m (3.94 ft)						H.264: 32 Kbps-8192 Kbps
	Lens	Detect	Observe	Recognize	Identify		Bit Rate	H.265: 19 Kbps-8192 Kbps
DORI Distance	W	41.0m (134.5ft)	16.4m (53.8ft)	8.2m (26.9ft)	4.1m (13.5ft)		Day/Night	Auto(ICR)/Color/B/W
	Т	93.4m (306.4ft)	37.3m (122.4ft)	18.6m (61.0ft)	9.3m (30.5ft)		BLC Mode	BLC/HLC/WDR (140 dB)
Pan/Tilt/Rota	ation						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Pan/Tilt/Rotati	on Range	Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°					Gain Control	Auto/Manual
Artificial Inte	lligence						Noise Reduction	3D NR
	-	Face detection; track; snapshot; snapshot					Motion Detection	Off/On (4 areas, rectangular)
		optimization; optimal face snapshot upload; face enhancement; face exposure; face attribute					Region of Interest	Off/On (4 areas)
Face Detection		extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness,					Electronic Image Stabilization (EIS)	Yes
		disgust, surprise, confusion and fear); mask; beard; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality priority); face angle filter;optimization time setting					Smart Illumination	Yes
							Defog	Yes
							Flip	0°/90°/180°/270°
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions					Mirror	Off/On
		support the classification and accurate detection of vehicle and human); loitering detection; people					Privacy Masking	Off/On (4 areas, rectangular)
		gathering; parking detection					Audio	
							Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

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				
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; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP;NFS; PPPoE; SNMP				
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P				
User/Host	20 Users				
Storage	NAS; FTP; SFTP Micro SD card (support max. 256 G)				
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)/ePoE				
Power Consumption	Basic power consumption: 3W (12V DC); 3.7W (PoE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 9.9W (12V DC); 10.9W (PoE)				
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				

Metal, plastic

Construction

Casing

Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")
Net Weight	1.11 kg (2.44 lb)
Gross Weight	1.51 kg (3.33 lb)

Ordering Information					
Туре	Part Number	Description			
2MP camera	DH-IPC- HFW5242EP- ZE-MF	2MP IR Vari-focal Bullet WizMind Network Camera,WDR, PAL			
	DH-IPC- HFW5242EN- ZE-MF	2MP IR Vari-focal Bullet WizMind Network Camera,WDR, NTSC			
	IPC-HFW5242EP- ZE-MF	2MP IR Vari-focal Bullet WizMind Network Camera,WDR, PAL			
	IPC-HFW5242EN- ZE-MF	2MP IR Vari-focal Bullet WizMind Network Camera,WDR, NTSC			
Accessories	PFA152-E	Pole mount			
(optional)	TF-P100	MicroSD Memory Card			

Accessories

Optional:





PFA152-E Pole Mount

TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount
		PFA152-E



Dimensions (mm[inch])





