



# DH-IPC-HFW5241E-Z5E

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 dustproof 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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 7 mm -35 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.

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 ±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	<u> </u>		
Camera  Image Sensor 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			Event Trigger	Motion detect changing, Net conflict, Illega			
Image Sensor  Max. Resolution		1920 (H) × 108		e scall stanvis	S CIVIOS	General Intelligence	Object Abando
RAM/ROM		512 MB/128 M				Heat Map	Yes
			ь			Video	
Scanning System			Progressive				H.265,H.264,H.2
Electronic Shutt	er Speed	Auto/Manual, 1/3 s–1/100000 s				Compression	MJPEG (only sup
S/N Ratio		> 56 dB				Smart Codec	Smart H.265+/ Sr
Minimum Illumi	nation	0.0015 Lux@F1	1.3			Streaming Capability	3 Streams
Illumination Dist		Distance up to  Auto/Manual	120 m (394 ft)			Resolution	1080P (1920 × 10 (1280 × 720)/D1 480)/CIF (352 × 2
Illuminator Num		4(IR LED)					Main Stream: 108
	ibei	+(III LLD)				Frame Rate	Sub Stream: D1 (2
Lens							Third Stream: 10
Lens Type		Motorized vari	-focal			Bit Rate Control	CBR/VBR H.264: 32 Kbps-8
Mount Type		Board-in				Bit Rate	H.265: 19 Kbps-7
Focal Length		7 mm-35 mm				Day/Night	Auto (ICR)/Color/
Max. Aperture		F1.3			BLC Mode	BLC/HLC/WDR (1	
Angle of View		H: 33°–10°, V: 19°–5°		White Balance	Auto/Natural/Str		
Aperture Type		Auto (HALL)				Gain Control	Auto/Manual
Close Focus Dist	ance	0.3 m-2.0 m (0	.98 ft-6.56 ft)			Noise Reduction	3D DNR
	Lens	Detect	Observe	Recognize	Identify	Motion Detection	Off/On (4 Zone, I
DORI Distance	W	131m(430ft)	52m(171ft)	26m(85ft)	13m(43ft)	Region of Interest	Off/On (4 Zone)
	Т	428m(1404ft)	171m(561ft)	86m(282ft)	43m(141ft)	Electronic Image Stabilization (EIS)	Yes
Pan/Tilt/Rota	tion					Smart Illumination	Yes
Pan/Tilt/Rotation	on Range	Pan: 0°-360°, T	ilt: 0°–90°, Rota	ation: 0°–360°		Defog	Yes
Artificial Intel	ligence					Flip	0°/90°/180°/270°
		Face detection				Mirror	Off/On
		high quality pic	extract, 6 attrib	utes and 8 exp	pressions:	Privacy Masking	Off/On (4 Area, R
Face Detection		happiness, sad	Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and			Audio	
		photo; three sn optimization sr	fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter;		Audio Compression	G.711a, G.711Mu	
		optimization time setting		Alarm			
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection  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			No SD card;SD car disconnection;IP of detection;video to Detection;scene of		
People Counting				Alarm Event	doned object; missing object; fast moving; parl detection; loitering detection; people gathering; audio detection; people counting; fa detection; voltage detection; People counting in area; Stay alarm; People No. exception detection; Queue Management		
				Network			
		and link alarm				Network	RJ-45 (10/100Bas

# Wiz Mind | DH-IPC-HFW5241E-Z5E

SDK and API	Yes		
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;PPPoE;802.1x;SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milsetone, 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
	Certifications	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	<10.3W

## 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")
Net Weight	1.11 kg (2.44 lb)
Gross Weight	1.51 kg (3.33 lb)

Ordering Information				
Type	Part Number	Description		
	DH-IPC- HFW5241EP-Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL		
2040	DH-IPC- HFW5241EN-Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC		
2MP camera	IPC-HFW5241EP- Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL		
	IPC-HFW5241EN- Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC		
Accessories (optional)	PFA152-E PFA121	Pole mount Junction Box		

### **Accessories**

# **Optional:**



Ce <b>ili</b> ng Mount	Junction Mount	Pole Mount(Vertical)	

## Dimensions (mm[inch])



