

DH-IPC-HFW5541EP-ZE

5MP 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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@2592 × 1944, 50/60 fps@1080P(1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-13.5 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50 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. This technology, designed by adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 LAN Cable or coaxial cable media, without repeater.

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 conflict, Illegal Access, Storage anomaly	
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS						
Max. Resolution		2592 (H) × 1944 (V)				General Intelligence	Object Abandoned/Missing	
RAM/ROM	RAM/ROM		1 GB/128 MB				Heat Map	Yes
Scanning System	1	Progressive	Progressive				Video	
Electronic Shutte	er 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 Illumir	nation	Color: 0.005 Lux @ F1.5 Black & White: 0.003 Lux@F1.5, 0Lux@F1.5(IR On)				Streaming Capability	3 Streams	
Illumination Dist	ance	Distance up to 50 m (164 ft)					2592 × 1944/2688 × 1520/2560 × 1440/2304 ×	
Illuminator On/C	Off Control		Auto/Manual				Resolution	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 Num	ber	4(IR LED)				Frame Rate	Main Stream: 2592 × 1944 (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-20/30 fps) D1 (1 fps-50 fps)	
Mount Type		Board-in					Third Stream: 1080P (1 fps–17 fps)	
Focal Length		2.7 mm-13.5 mm				Bit Rate Control	CBR/VBR	
Max. Aperture		F1.5				Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps	
Angle of View		Horizontal: 103°–28° Vertical: 76°–21° Diagonal: 133°–35°				Day/Night	Auto(ICR)/Color/B/W	
Aperture Type	Aperture Type		Auto				BLC Mode	BLC/HLC/WDR (120 dB)
Close Focus Dist	ance	0.8 m (2.62 ft)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto/Manual
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)		Noise Reduction	3D DNR
	Т	212m(696ft)	85m(279ft)	42m(138ft)	21m(69ft)		Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tilt/Rota	tion						Region of Interest	Off/On (4 Zone)
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range Pan: 0*–360*; Tilt: 0*–90*; Rotation: 0*–360*				Electronic Image Stabilization (EIS)	Yes		
Artificial Intel	Artificial Intelligence						Smart Illumination	Yes
		Face detection; track; optimization; snapshot;				Defog	Yes	
		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 matting				Flip	0°/90°/180°/270°	
Face Detection						Mirror	Off/On	
		setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting				Privacy Masking	Off/On (4 Area, Rectangle)	
						Audio		
		Tripwire; intrusion; abnormal motion [fast moving			Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723		
Perimeter Protection		(the three functions 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;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;NFS;PPPoE;IEEE802.1x;SNMP	
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

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

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW5541EP-ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL		
5140	DH-IPC- HFW5541EN-ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC		
5MP camera	IPC-HFW5541EP-ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL		
	IPC-HFW5541EN- ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC		
Accessories (optional)	PFA152-E PFA121	Pole mount Junction Box		

Accessories

Optional:



Ce li ing Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





