



DH-IPC-HFW5541E-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
- \cdot ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 20 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.

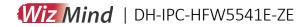
Protection (IP67, IK10, wide voltage)

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 out-door environment with instable voltage.

DVIE



Technical Specification						General Intelligence		
Camera		4/2 7/1 5 4					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				General Intelligence	Object Abandoned/Missing
Max. Resolution			2592 (H) × 1944 (V)				Heat Map	Yes
RAM/ROM		1 GB/128 MI	3				Video	163
Scanning System			Progressive					H.265,H.264,H.264B,H.264H,
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				Compression	MJPEG (only supported by sub stream)	
S/N Ratio		>56 dB				Smart Codec	Smart H.265+/ Smart H.264+	
Minimum Illumir	nation	0.005 Lux@F	1.5, 0Lux@F1	1.5(IR ON)			Streaming Capability	3 Streams
Illumination Dist	ance	Distance up to 50 m (164 ft)				Resolution	2592 × 1944/2688 × 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/C	Off Control	Auto/Manual						
Illuminator Number Lens		4(IR LED)	4(IR LED)			Frame Rate	Main Stream: 2592 × 1944 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)	
Lens Type		Motorized va	Motorized vari-focal				Sub Stream: D1 (1 fps-20/30 fps)	
Mount Type		Board-in				D1 (1 fps-50 fps) 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		H: 100°-28°, V: 72°-21° (2592 × 1944) H: 104°-29°, V: 55°-16° (2688 × 1520)			Day/Night	Auto(ICR)/Color/B/W		
Aperture Type		Auto			BLC Mode	BLC/HLC/WDR (120 dB)		
Close Focus Dista	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: 0°-360°	Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°			Electronic Image Stabilization (EIS)	Yes	
Artificial Intel	ligence				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,				Flip	0°/90°/180°/270°	
Face Detection						Mirror	Off/On	
Tace Detection		confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot				Privacy Masking	Off/On (4 Area, Rectangle)	
			methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time				Audio	
		-			Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723		
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people				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		

Wiz Mind | DH-IPC-HFW5541E-ZE

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;IGMP;NFS;PPPoE;802.1x;SNMP	
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, 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- Certifications 20 FCI	-LVD: EN62368-1 -EMC: Electromagnetic Compatibility Directive 14/30/EU C: 47 CFR FCC Part 15, Subpart B /CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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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")
Net Weight	1.11 kg (2.44 lb)
Gross Weight	1.51 kg (3.33 lb)

Ordering Information				
Type	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	Pole mount		

Accessories

Optional:



PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Ceiling Mount	Wali Mount	Pole Mount
		PFA152-E

Dimensions (mm[inch])

