

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
- \cdot 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
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- \cdot 2.7 mm–13.5 mm motorized lens
- \cdot 2/1 Alarm in/out, 1/1 audio in/out
- \cdot 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.



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Technical Specification

People Counting

Camera						
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				
Max. Resolution		2592 (H) × 1944 (V)				
RAM/ROM		1 GB/128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				
S/N Ratio		> 56 dB				
Minimum Illumination		Color : 0.005 Lux @ F1.5 Black & White : 0.003 Lux@F1.5, 0Lux@F1.5(IR On)				
Illumination Distance		Distance up to 50 m (164 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4(IR LED)				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		Board-in				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Angle of View		H: 100°–28°, V: 72°–21° (2592 × 1944) H: 104°–29°, V: 55°–16° (2688 × 1520)				
Aperture Type		Auto				
Close Focus Distance		0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	
	Т	212m(696ft)	85m(279ft)	42m(138ft)	21m(69ft)	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				
Artificial Intelligence						
Face Detection		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 matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting				
Perimeter Protection		Tripwire; intrusion; abnormal motion [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 and link alarm

General Intelligence Motion detection, Video tampering , Scene Event Trigger changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Yes Heat Map Video H.265,H.264,H.264B,H.264H, Compression MJPEG (only supported by sub stream) Smart H.265+/ Smart H.264+ Smart Codec Streaming Capability 3 Streams 2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P Resolution (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240) Main Stream: 2592 × 1944 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps) Frame Rate Sub Stream: D1 (1 fps-20/30 fps) D1 (1 fps-50 fps) Third Stream: 1080P (1 fps-17 fps) Bit Rate Control CBR/VBR H.264: 32 Kbps-8192 Kbps Bit Rate H.265: 19 Kbps-8192 Kbps Day/Night Auto(ICR)/Color/B/W BLC Mode BLC/HLC/WDR (120 dB) White Balance Auto/Natural/Street Lamp/Outdoor/Manual Gain Control Auto/Manual 3D DNR Noise Reduction Motion Detection Off/On (4 Zone, Rectangle) Region of Interest Off/On (4 Zone) Electronic Image Stabilization Yes (EIS) Smart Illumination Yes Defog Yes 0°/90°/180°/270° Flip Mirror Off/On Off/On (4 Area, Rectangle) Privacy Masking Audio Audio Compression G.711a, G.711Mu, AAC, G.726, G.723 Alarm 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 Alarm Event 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						
Network	RJ-45 (10/100 Base-T)					
SDK and API	Yes					
Protocol	IPv4;IPv6;HTTP;HTTP5;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						
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 (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		
5MP camera	DH-IPC- HFW5541EP-ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, PAL		
	DH-IPC- HFW5541EN-ZE	5MP IR Vari-focal Bullet WizMind Network Camera, WDR, NTSC		
	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

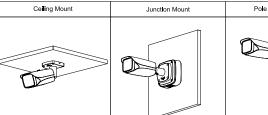
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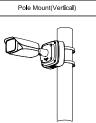




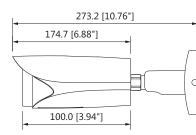


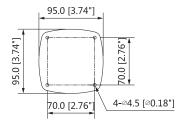
PFA152-E Pole Mount LR1002 ePoE Over Coax Converter PFA121 Junction Box





Dimensions (mm[inch])





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