



DH-IPC-HDBW5442H-Z4E

4MP Vari-focal Dome 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.

- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 fps
- · Max. IR distance: 80 m
- ROI, SVC, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 24V AC/PoE/12V DC power supply (power input ports vary depending on power supply)
- · ePoE, IP67, IK10 protection
- Anti-corrosion coating (optional)
- Supports junction box mount
- SMD 3.0













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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					
Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.002 Lux @F1.6			
S/N Ratio		>56 dB			
Illumination Distance		80 m (262.5 ft) (IR LED)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°-355° Tilt: 0°-80° Rotation: 0°-355°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Module			
Focal Length		8 mm-32 mm			
Max. Aperture		F1.6			
Field of View		Horizontal: 42°–15° Vertical: 23°–8° Diagonal: 49°–17°			
Iris Type		Auto			
Close Focus I	Distance	2.5 m-6 m (8.2 ft-19.7 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	150.0 m (492.1 ft)	60.0 m (75.5 ft)	30.0 m (98.4 ft)	15 m (49.2 ft)
	Т	400.0 m (1312.3 ft)	160.0 m (521.9 ft)	80.0 m (262.5 ft)	40.0 m (131.2 ft)
Smart Eve	ent				
IVS		Abandoned object; missing object			
Heat Map		Yes			
Profession	nal, intellige	ent			
IVS (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			
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			

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.		
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)		
Smart Codec	Smart H.265+/H.264+		
Video Frame Rate	$eq:main_stream: 2688 x 1520 (1 fps-25/30 fps) /1920 x 1080 (1 fps-50/60 fps) \\ Sub stream: D1 (1 fps-50/60 fps) \\ Third stream: 1080p (1 fps-25/30 fps) \\ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. \\$		
Stream Capability	3 streams		
Resolution	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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	140 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas)		
Region of Interest (RoI)	Yes (4 areas)		
Electronic Image Stabilization (EIS)	Yes		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270°		
Mirror	Yes		
Privacy Masking	8 areas		
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; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face 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; SAMBA; PPPoE; SNMP	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE8 and later Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Mobile Phone Certification	IOS; Android	
	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional)	
Certification	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL	
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Certification Certification Port	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional)	
Certification Certification Port Audio Input	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional)	
Certification Certification Port Audio Input Audio Output	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal)	
Certification Certification Port Audio Input Audio Output Alarm Input	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channel (terminal) 3 channels in: 5mA 3V–5V DC	
Certification Certification Port Audio Input Audio Output Alarm Input Alarm Output	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channel (terminal) 3 channels in: 5mA 3V–5V DC	
Certification Certification Port Audio Input Audio Output Alarm Input Alarm Output Power	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channel (terminal) 3 channels in: 5mA 3V–5V DC 2 channels out: 300mA 12V DC	
Certification Certification Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channels in: 5mA 3V–5V DC 2 channels out: 300mA 12V DC 12V DC (±25%)/24V AC (±30%)/PoE (802.3af) /ePoE Basic power consumption: 3.6W (12V DC); 3.1W (24V AC); 4.4W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 11.7W (12V DC);	
Certification Certification Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply Power Consumption	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channels in: 5mA 3V–5V DC 2 channels out: 300mA 12V DC 12V DC (±25%)/24V AC (±30%)/PoE (802.3af) /ePoE Basic power consumption: 3.6W (12V DC); 3.1W (24V AC); 4.4W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 11.7W (12V DC);	
Certification Certification Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply Power Consumption Environment	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional) 1 channel (terminal) 1 channel (terminal) 3 channels in: 5mA 3V–5V DC 2 channels out: 300mA 12V DC 12V DC (±25%)/24V AC (±30%)/PoE (802.3af) /ePoE Basic power consumption: 3.6W (12V DC); 3.1W (24V AC); 4.4W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 11.7W (12V DC); 11.3W (24V AC); 11.9W (PoE)	

Structure

Casing	Metal
Dimensions	129.1 mm × Φ157.9mm (5.1"× Φ6.2")
Net Weight	1500.0 g (3.3 lb)
Gross Weight	1600.0 g (3.5 lb)

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HDBW5442HP-Z4E	4MP Vari-focal Dome WizMind Network Camera , PAL		
	DH-IPC-HDBW5442HN-Z4E	4MP Vari-focal Dome WizMind Network Camera , NTSC		
	IPC-HDBW5442HP-Z4E	4MP Vari-focal Dome WizMind Network Camera , PAL		
	IPC-HDBW5442HN-Z4E	4MP Vari-focal Dome WizMind Network Camera , NTSC		
	PFA773	Wall Mount		
	PFB211W	Pole Mount		
	PFA152-E	Pole Mount		
Accessories	PFA101	Ceiling Mount		
(Optional)	PFB300C	Ceiling Mount		
	PFM900-E	Integrated Mount Tester		
	PFM321D	12V 1A Power Adapter		
	TF-P100	MicroSD Memory Card		

Accessories

Optional



PFA773 Wall Mount



PFB211W Pole Mount



PFA152-E Pole Mount



PFB300C Ceiling Mount



PFM900-E Integrated Mount Tester



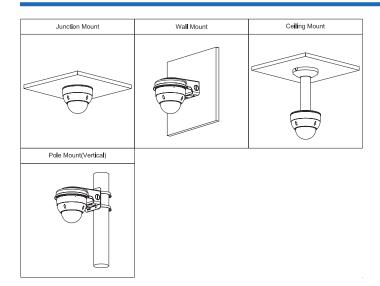
12V 1A Power Adapter

Ceiling Mount

(a)hua

MicroSD Memory Card





Dimensions (mm[inch])

