

DH-IPC-HDBW5442H-ZHE

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: 40 m
- ROI, SMART 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 Plus



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 $\pm 30\%$ (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								Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/ monthly/daily reports.
Camera								
Image Sensor		1/1.8" CMOS					People Counting	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.
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 MB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
RAM		1 GB						
Scanning System		Progressive					Video	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						H.265; H.264; H.264H; H.264B; MJPEG (only supported
Min. Illumination		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE)					Video Compression Smart Codec	by the sub stream) Smart H.265+/H.264+
		0 Lux (Illuminator on)					Smart Couec	
S/N Ratio		>56 dB						Main stream: 2688 × 1520 (1 fps-25/30 fps) 1920 × 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.
Illumination Distance		40 m (131.2 ft) (IR LED)					Video Frame Rate	
Illuminator On/Off Control		Auto/Manual						
indiminator Number		3 (IR LED) Pan: 0°–355°					Stream Capability	3 streams
Pan/Tilt/Rot	ation Range	Tilt: 0°–80° Rotation: 0°–355°					Stream capability	2688 × 1520; 2560 × 1440; 2304 × 1296; 1080p (1920 ×
Lens							Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens Type		Motorized vari-focal					Bit Rate Control	, CBR/VBR
Mount Type		φ14					Video Bit Rate	H.264: 32 kbps–8192 kbps
Focal Length		2.7 mm–12 mm						H.265: 32 kbps-8192 kbps
Max. Aperture		F1.8 (Constant)					Day/Night	Auto (ICR)/Color/B/W
Field of View		Horizontal: 107°–44° Vertical: 69°–29° Diagonal: 134°–53°					BLC	Yes
Iris Type		Auto					WDR	140 dB
Close Focus Distance		W/T: 1.2 m (3.9 ft)					Scene Self-adaptation (SSA)	Yes
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
DORI Distance	W	57.0 m (131.2 ft)	23.0 m (75.5 ft)	11.0 m (36.1 ft)	5.7 m (18.7 ft)		Gain Control	Auto/Manual
	т	130.7 m (428.8 ft)	52.0 m (170.6 ft)	26.0 m	13.0 m		Noise Reduction	3D NR
Smort Fu	ant	(420.011)	(170.011)	(85.3 ft)	(42.7 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
Smart Event							Region of Interest (RoI)	Yes (4 areas)
IVS Heat Map		Abandoned object; missing object Yes					Electronic Image Stabilization (EIS)	Yes
Professio	nal, intellige						Smart Illumination	Yes
		Tripwire; intrusion; fast moving (the three functions					Defog	Yes
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human): loitering detection: people					Image Rotation	0°/90°/180°/270°

IVS (Perimeter Protection)	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

Privacy Masking

Mirror

Audio

Yes

4 areas

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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 Safari: Safari 12 and later				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
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 50E NEMA Type 4X (optional)				
Port					
Audio Input	1 channel (terminal)				
Audio Output	1 channel (terminal)				
Alarm Input	3 channels in: 5mA 3V–5V DC				
Alarm Output	2 channels out: 300mA 12V DC				
Power					
Power Supply	12V DC (±25%)/24V AC (±30%)/PoE (802.3af)/ePoE				
Power Consumption	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)				
Environment					
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH				
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)				

Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)		
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			
	DH-IPC-HDBW5442HP-ZHE	4MP Vari-focal Dome WizMind Network Camera , PAL			
4MP	DH-IPC-HDBW5442HN-ZHE	4MP Vari-focal Dome WizMind Network Camera , NTSC			
Camera	IPC-HDBW5442HP-ZHE	4MP Vari-focal Dome WizMind Network Camera , PAL			
	IPC-HDBW5442HP-ZHE	4MP Vari-focal Dome WizMind Network Camera , NTSC			
	PFA773	Wall Mount			
	PFB211W	Pole Mount			
	PFA152-E	Pole Mount			
Accessories (Optional)	PFA101	Ceiling Mount			
	PFB300C	Ceiling Mount			
	PFM900-E	Integrated Mount Tester			
	PFM321D	12V 1A Power Adapter			

Accessories

Optional



PFA773

Wall Mount

9

PFA101

Ceiling Mount









PFM900-E Integrated Mount Tester

Ceiling Mount

PFB211W

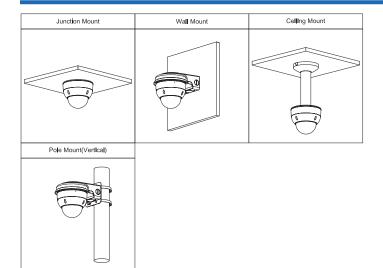
Pole Mount



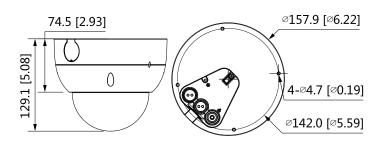
PFM321D 12V 1A Power Adapter

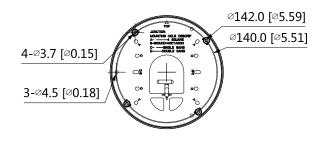


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Dimensions (mm[inch])





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