

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
- · H.265 codec, high compression rate, ultra-low bit rate
- · Max. IR distance: 80 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, parking detection, heat map, face detection, face attributes and people counting
- · 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, transmission over long distance, easy for installations of various scenes
- IP67, IK10 protection
- · Supports junction box mount













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/weekly/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 outdoor environment with instable voltage.



Technical Specification					Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/weekly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and			
Camera								
Image Sensor		1/1.8"4Megapixel progressive CMOS					People Counting	
Max. Resolution		2688 (H) × 1520 (V)						link alarm. Support queue management, and 4 rules configuration.
ROM		128 MB					Count number of people or stay time and link alarm.	
RAM		1 GB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video	
Min. Illumination		0.002 Lux @F1.6					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported
S/N Ratio		>56 dB						by the sub stream)
Illumination Distance		80 m (262.5 ft) (IR LED)					Smart Codec	Smart H.265+/H.264+
Illuminator On/Off Control		Auto/Manual					Video Frame Rate	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)
Illuminator Number		3 (IR LED)						
Pan/Tilt/Ro	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80°				Stream Capability	3 streams
Lens		Rotation: 0°–355°					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)
Lens Type		Motorized vari-focal						
Mount Type		Module					Bit Rate Control	CBR/VBR
Focal Length		8 mm-32 mm					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
iviax. Aperti	Max. Aperture		F1.6 Horizontal: 42°–15°				Day/Night	Auto (ICR)/Color/B/W
Field of Viev	Field of View		Vertical: 23°–8° Diagonal: 49°–17°				BLC	Yes
Iris Type		Auto					HLC	Yes
Close Focus Distance		2.5 m-6 m (8.2 ft-19.7 ft)					WDR	140 dB
	Lens	Detect	Observe	Recognize	Identify		Scene Self-adaptation	Yes
DORI Distance	W	150.0 m (492.1ft)	60.0 m (75.5 ft)	30.0 m (98.4ft)	15 m (49.2 ft)		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Distance	Т	400.0 m	160.0m	80.0m	40.0m		Gain Control	Auto/Manual
		(1312.3 ft)	(521.9 ft)	(262.5ft)	(131.2ft)		Noise Reduction	3D DNR
Smart Ev	ent						Motion Detection	OFF/ON (4 areas)
	IVS		bject; missing	object			Region of Interest (RoI)	Yes (4 areas)
Heat Map Professional intellige		Yes					Electronic Image Stabilization (EIS)	Yes
Professional, intellige		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					Smart Illumination	Yes
IVS (Perimeter Protection)							Defog	Yes
							Image Rotation	0°/90°/180°/270°
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					Mirror	Yes
							Privacy Masking	4 areas
							Audio	
							Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; 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		
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; SAMBA; PPPoE; 802.1x; 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); Dahua Cloud; 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 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		
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)		
Power Consumption	<11.9W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67; IK10		
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-Z4E	2MP Vari-focal Dome WizMind Network Camera , PAL			
2MP	DH-IPC-HDBW5442HN-Z4E	2MP Vari-focal Dome WizMind Network Camera , NTSC			
Camera	IPC-HDBW5442HP-Z4E	2MP Vari-focal Dome WizMind Network Camera , PAL			
	IPC-HDBW5442HN-Z4E	2MP Vari-focal Dome WizMind Network Camera , NTSC			
	PFA773	Wall Mount			
	PFB210W	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







PFA101

Ceiling Mount





PFB300C Ceiling Mount

PFM900-E Integrated Mount Tester



PFM321D 12V 1A Power Adapter

Junction Mount	Wa ll Mount	Ceiling Mount	
Pole Mount(Vertical)			

Dimensions (mm[inch])



