

DH-IPC-HDBW5442H-ZE

4MP Vari-focal Dome WizMind Network Camera



POE Wiz Mind

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.

- \cdot 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, 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's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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.

Wiz Mind | DH-IPC-HDBW5442H-ZE

Technical Specification					Support the counting of enter number, leave number			
Camera		monthly/daily reports.						
Image Senso	r	1/1.8" CMOS			People Counting	configuration. Count number of people or stay time and link alarm.		
Max. Resolut	tion	2688 (H) × 1520 (V)					Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	
ROM		128 MB					Work together with Smart NVR to perform refine	
RAM 1 GB			Intelligent Search	intelligent search, event extraction and merging to event videos.				
Scanning System Progressive			Video					
Electronic Sh	Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s			Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported			
Min. Illumina	0.003 Lux@F1.8 (Color, 30IRE) mination 0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)			Smart Codec	by the sub stream) Smart H.265+/H.264+			
S/N Ratio		>56 dB	,					Main stream: 2688 × 1520 (1 fps–25/30 fps) /1920 ×
Illumination	Distance	40 m (131.2 f	ft) (IR LED)				1080 (1 fps-50/60 fps) Sub stream: D1 (1 fps-50/60 fps) Video Frame Rate 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 subj	
Illuminator C	Dn/Off Control	Auto/Manua	I					
Illuminator N	lumber	3 (IR LED)						to the total encoding capacity.
Pan/Tilt/Rot	ation Range	Pan: 0°–355° Tilt: 0°–80°					Stream Capability	3 streams
Lens		Rotation: 0°-355° 2688 × 1520; 2560 × 1440; 2304 × 1296; 1080); 1.3M (1280 × 960); 720p (1280 ×		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				
Lens Type		Motorized va	ri-focal					× 240)
Mount Type		φ14					Bit Rate Control	CBR/VBR H.264: 32 kbps-8192 kbps
Focal Length		2.7 mm–12 mm					Video Bit Rate	H.265: 32 kbps=8192 kbps
Max. Apertu		F1.8					Day/Night	Auto (ICR)/Color/B/W
	Horizontal: 107°–44° BLC Yes		Yes					
Field of View			Yes					
Iris Type	s Type Auto WDR			140 dB				
Close Focus	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
DORI	W	57.0 m (131.2 ft)	23.0 m (75.5 ft)	11.0 m 5.7 m (36.1 ft) (18.7 ft)	White Balance	custom		
Distance		(131.2 ft) 130.7 m	52.0 m	26.0 m	13.0 m		Gain Control	Auto/Manual
	Т	(428.8 ft)	(170.6 ft)	(85.3 ft)	(42.7 ft)		Noise Reduction	3D NR
Smart Eve	ent						Motion Detection	OFF/ON (4 areas)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Heat Map		Yes					Electronic Image Stabilization (EIS)	Yes
Profession	ional, intelligent Smart Illumination Yes		Yes					
IVS (Perimet	er Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection Yes		Yes				
ivs (rennet	IVS (Perimeter Protection)		of vehicle and human); loitering detection; people gathering; parking detection				Image Rotation	0°/90°/180°/270°

Face Detection

Audio Compression PCM;

Yes

8 areas

PCM; G.711a; G.711Mu; G.726; G.723

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

Audio

Privacy Masking

Alarm		

Certification

Strorage Conditions

Protection Grade

Port Audio Input Audio Output

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
Certification	

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	Ordering Information		
Туре	Model	Description	
4MP Camera	DH-IPC-HDBW5442HP-ZE	4MP Vari-focal Dome WizMind Network Camera , PAL	
	DH-IPC-HDBW5442HN-ZE	4MP Vari-focal Dome WizMind Network Camera , NTSC	
	IPC-HDBW5442HP-ZE	4MP Vari-focal Dome WizMind Network Camera , PAL	
	IPC-HDBW5442HN-ZE	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

PFA773

Wall Mount

PFA101

Ceiling Mount

PFM321D

12V 1A Power Adapter

Optional





PFA152-E Pole Mount



PFB211W

Pole Mount

PFB300C

Ceiling Mount

alhua 256GB UA2

TF-P100

MicroSD Memory Card

PFM900-E Integrated Mount Tester

1 of c		
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	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH	

IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)

-40°C to +60°C (-40°F to +140°F)

CE-LVD: EN62368-1,EN60950-22 (optional) CE-EMC: Electromagnetic Compatibility Directive

UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07, UL

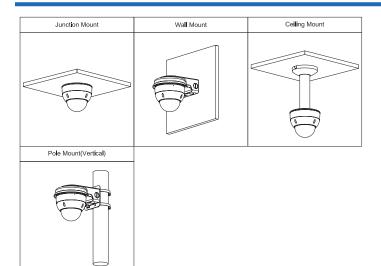
FCC: 47 CFR FCC Part 15, Subpart B

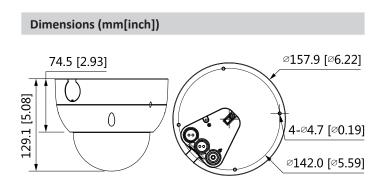
50E NEMA Type 4X (optional)

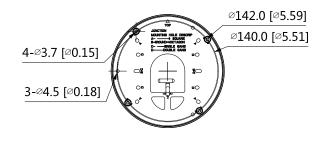
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