

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, 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, Heater
- · 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	Specificati	on					Support the counting of enter number, leave number
Camera							and pass number, and displaying and outputting yearly/ monthly/daily reports.
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) × 15	520 (V)				
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 Shutter Speed		Auto/Manua	l 1/3 s-1/100,0	000 s			H.265; H.264; H.264H; H.264B; MJPEG (only supported
Min. Illumination			1.8 (Color, 30IF F1.8 (B/W, 30II nator on)			Video Compression 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	ft) (IR LED)				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.
Illuminator On/Off Control		Auto/Manua	I			Video Frame Rate	
Illuminator Number		3 (IR LED)					
D (T)(10)		Pan: 0°-355° Tilt: 0°-80°				Stream Capability	3 streams
Pan/Tilt/Rotation Range 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
Lens Type		Motorized va	ri-focal				× 240)
Mount Type		ф14				Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-12 r	nm			Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Max. Aperture		F1.8				Day/Night	Auto (ICR)/Color/B/W
Field of Man		Horizontal: 107°–44°				BLC	Yes
Field of View		Vertical: 69°–29° Diagonal: 134°–53°				HLC	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 (85.3 ft)	13.0 m	Noise Reduction	3D NR
Smart Eve	ant	(428.6 11)	(170.611)	(63.3 11)	(42.7 ft)	Motion Detection	OFF/ON (4 areas, rectangular)
	=111	Ahandaned object: missing object				Region of Interest (RoI)	Yes (4 areas)
IVS Heat Map		Abandoned object; missing object Yes				Electronic Image Stabilization (EIS)	Yes
	nal, intellige					Smart Illumination	Yes
110103310	inai, intellige	Tripwire; intrusion; fast moving (the three functions				Defog	Yes
IVS (Perimeter Protection)		support the o	classification ar d human); loite	nd accurate detering detection;	ection	Image Rotation	0°/90°/180°/270°
		gathering; parking detection				Mirror	Yes
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender,				Privacy Masking	8 areas

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

Face Detection

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; SNMF	
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		
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: UL60 950-1 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) Heat power consumption: 3.3W (12V DC); 4.4W (24V AC); 5.5W (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	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



PFB300C

PFA152-E Pole Mount

Ceiling Mount



Integrated Mount Tester



PFA101

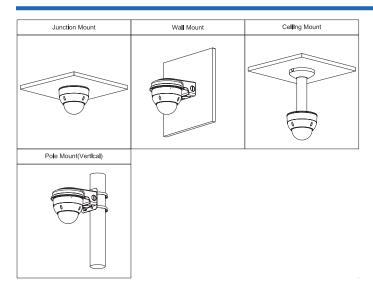
Ceiling Mount

PFM321D 12V 1A Power Adapter



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

