

DH-IPC-HDW5449H-ASE-D2

4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera



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.

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.

Multi-spectrum Fusion

Dahua Multi-Spectrum Fusion technology extracts the details and brightness of the visible spectrum and infrared spectrum to make the fusion brightness close to the visible light brightness, so that the camera provides a better image.

- Dual AI sensors with multi-spectral imaging technology that produces colorful images in low illumination conditions.
- · Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- \cdot Built-in warm light/IR LED, with a maximum illumination distance of 50 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, and parking detection.
- Face detection: Track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, and face exposure.
- People counting: Queue management, people counting in area, entered/exited people counting, and generating and exporting report (day/month/year).
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in Mic and speaker, support two-way talk.
- \cdot 12 VDC/PoE power supply.
- · IP67 protection.



Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, 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.

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 Camera 1/1.8" + 1/1.8" CMOS Image Sensor 2688 (H) × 1520 (V) Max. Resolution ROM 128 MB 1 GB RAM Progressive Scanning System Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.0002 lux @F1.0 Min. Illumination >56 dB S/N Ratio 50 m (164.04 ft) Illumination Distance Illuminator On/Off Control Auto; manual Illuminator Number 2 (IR light); 2 (warm light) Pan: 0°-360° Tilt: 0°–78° Pan/Tilt/Rotation Range Rotation: 0°-360° Lens Lens Type Fixed-focal M16 Lens Mount Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture F1.0 2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: 115° Field of View 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56° Iris Control Fixed 2.8 mm: 4 m (13.1 ft) 3.6 mm: 5 m (16.4 ft) **Close Focus Distance** 6 mm: 6 m (19.7 ft) Lens Detect Observe Recognize Identify 58.2 m 23.3 m 11.6 m 5.8 m 2.8 mm (190.94 ft) (76.44 ft) (19.03 ft) (38.06 ft) 70.3 m 28.1 m 7.0 m 14.1 m 3.6 mm (230.64 ft) (92.19 ft) (46.26 ft) (22.97 ft) DORI 116.1 m 46.5 m 23.2 m 11.6 m Distance 6 mm (380.91 ft) (152.56 ft) (76.12 ft) (38.06 ft) *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation

Smart event

IVS	Abandoned object; missing object
Heat Map	Yes
Professional, intelligent	
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection

and commissioning manual/project design tool.

SMD 3.0	Less false alarm, longer detection distance
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 face attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); 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+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@(1–25/30 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	4M (2688 × 1520); 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: 19 kbps–8192 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

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Audio	
Built-in MIC	Yes
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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; face detection; people counting in area; stay detection; people counting; people number error detection; security exception; defocus detection; people number alarm; queue time alarm
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8, IE9, IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368- 1-14
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)

Structure

Casing	Metal
Product Dimensions	Φ122 mm × 110.9 mm (Φ4.80" × 4.37")
Net Weight	0.75 kg (1.65 lb)
Gross Weight	0.94 kg (2.07 lb)

Ordering Information		
Туре	Part Number	Description
4MP Camera	DH-IPC- HDW5449HP-ASE- D2-0280B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
	DH-IPC- HDW5449HP-ASE- D2-0360B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
	DH-IPC- HDW5449HP-ASE- D2-0600B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
	IPC-HDW5449HP- ASE-D2-0280B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
	IPC-HDW5449HP- ASE-D2-0360B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
	IPC-HDW5449HP- ASE-D2-0600B	4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color Network Camera
Accessories (Optional)	PFA137	Junction Box
	PFB203W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFB220C	Celling Mount Bracket
	PFA106	Mount Adapter
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: 5 mA 3-5 VDC	
Alarm Output	1 channel out: 300 mA 12 VDC	
Power		
Power Supply	12 VDC (±30%); PoE (802.3af); ePoE	
Power Consumption	Basic: 3.9 W (12 VDC); 4.6 W (PoE) Max. (H.265+IR and Warm light on): 9.3 W (12 VDC); 10.5 W (PoE)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤ 95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67	

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Accessories

Optional:



PFA137 Junction Box



PFB203W Wall Mount Bracket





PFB220C Celing Mount Bracket

PFA106 Mount Adapter

PFM321D 12 VDC 1A Power Adapter

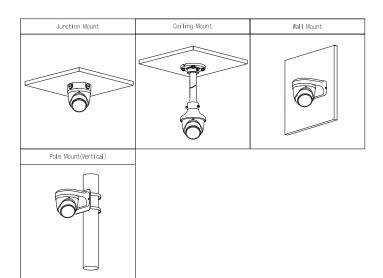


PFM900-E Integrated Mount

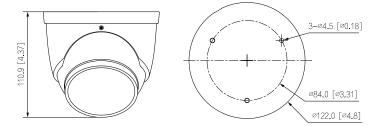
Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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