



DH-IPC-HDW5449H-ASE-D2

4 MP Dual Lens Fixed-focal Eyeball WizMind Full-color 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.

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.
- · Built-in warm light/IR LED, with a maximum illumination distance of
- · 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.
- · 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Taskwisel Specification					Face detection; track; snapshot; snapshot			
Technical Specification					optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes			
Camera		4/4 011 - 4/4 011 014 00						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
Image Sensor		1/1.8" + 1/1.8" CMOS					Face Detection	
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 MB						snapshot and quality first); face angle filter; optimization time setting
RAM		1 GB						Support the counting of enter number, leave number and pass number, and displaying and
Scanning System		Progressive	Progressive					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.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					People Counting	
Min. Illuminati	ion	0.0002 lux @F1.0						Support queue management, and 4 rules configuration. Count number of people or stay time
S/N Ratio		>56 dB	>56 dB					and link alarm.
Illumination D	istance	50 m (164.0	50 m (164.04 ft)				Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
Illuminator On	/Off Control	Auto; manu	Auto; manual				event videos	
Illuminator Nu	mber	2 (IR light); 2	2 (IR light); 2 (warm light)				Video	
Pan/Tilt/Rotat	ion Range	Tilt: 0°-78°	Pan: 0°–360° Tilt: 0°–78°				Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
		Rotation: 0°	–360°				Smart Codec	Smart H.265+; Smart H.264+
Lens							Al Coding	AI H.265; AI H.264
Lens Type Lens Mount		Fixed-focal M16				Video Frame Rate	Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@ (1–30 fps)	
Focal Length		2.8 mm; 3.6 mm; 6 mm						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
Max. Aperture	1	F1.0						subjected to the total encoding capacity.
		2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: 115°				Stream Capability	3 streams	
Field of View		3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°				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)	
Iris Control		Fixed				Bit Rate Control	CBR/VBR	
Close Focus Di	stance	2.8 mm: 4 m (13.1 ft) 3.6 mm: 5 m (16.4 ft) 6 mm: 6 m (19.7 ft)				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps	
	Lens	Detect	Observe	Recognize	Identify		Day/Night	Color/B/W
	2.8 mm	58.2 m	23.3 m	11.6 m	5.8 m		BLC	Yes
DORI Distance		(190.94 ft) 70.3 m	(76.44 ft) 28.1 m	(38.06 ft) 14.1 m	(19.03 ft) 7.0 m		HLC	Yes
	3.6 mm	(230.64 ft)	(92.19 ft)	(46.26 ft)	(22.97 ft)		WDR	DWDR
h mm		23.2 m (76.12 ft)	11.6 m (38.06 ft)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Smart event				Gain Control	Auto; manual			
IVS		Abandoned object; missing object					Noise Reduction	3D NR
Heat Map		Yes					Motion Detection	OFF/ON (4 areas, rectangular)
Professional, intelligent							Region of Interest (RoI)	Yes (4 areas)
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people				Image Rotation	$0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Support $90^{\circ}\!/270^{\circ}$ with $1080p$ resolution and lower)	
SMD 3.0		gathering, and parking detection Less false alarm, longer detection distance				Mirror	Yes	
SIMIL 5.0 Less false afaith, longer detection distance				Privacy Masking	4 areas			

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				

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RJ-45 (10/100 Enhancement Base-T)
Yes
Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS
ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
FTP; SFTP; Micro SD card (support max. 256 G); NAS
IE: IE8, IE9, IE11 Chrome Firefox
Smart PSS; DSS; DMSS
iOS; Android
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)
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)
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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
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		
	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		
4MP 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		
	PFA137	Junction Box		
	PFB203W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories (Optional)	PFB220C	Celling Mount Bracket		
	PFA106	Mount Adapter		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



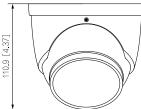
PFA137 Junction Box



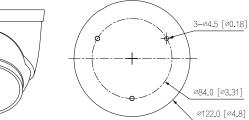
PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



Dimensions (mm[inch])





PFB220C Celing Mount Bracket



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

