

DH-IPC-HFW5449T1-ASE-D2

4MP Dual Lens Fixed-focal Bullet 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. 4MP (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, WDR, 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.
- · 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.

Wiz Mind | DH-IPC-HFW5449T1-ASE-D2

Technical Specification

SMD 3.0

Camera					
Image Sensor		1/1.8" + 1/2.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0002 lux @F1.0			
S/N Ratio		> 56 dB			
Illumination Distance		50 m (164.04 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		4 (IR light); 2 (warm light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M16 + M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		F1.0 + F1.6			
Field of View		2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: 115° 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 2 m (6.56 ft) 3.6 mm: 2 m (6.56 ft) 6 mm: 2.5 m (8.20 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI	2.8 mm	58.2 m (190.9 ft)	23.3 m (76.4 ft)	11.6 m (38.1 ft)	5.8 m (19 ft)
Distance	3.6 mm	70.3 m (230.6 ft)	28.1 m (92.2 ft)	14.1 m (46.3 ft)	7.0 m (22.3 ft)
	6 mm	116.1 m (380.9 ft)	46.5 m (152.6 ft)	23.2 m (76.1 ft)	11.6 m (38.1 ft)
Smart event					
IVS		Abandoned object; missing object			
Heat Map		Yes			
Professiona					
IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			

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 7 attributes (gender, age, glasses, expressions, skin color, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real- time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting	
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/ month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management	
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.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	
Audio		
Built-in MIC	Yes	

Wiz Mind | DH-IPC-HFW5449T1-ASE-D2

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; 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)			
Alarm Input	1 channel in: 5mA 3 V–5 VDC			
Alarm Output	1 channel out: 300mA 12 VDC			
Power				
Power Supply	12 VDC (±30%); PoE (802.3af); ePoE			
Power Consumption	Basic: 3.4 W (12 VDC); 4.5 W (PoE) Max. (H.265+IR and Warm light on): 9.9 W (12 VDC); 11.8 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
Structure	
Casing	Metal
Product Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)
Net Weight	1.0 kg (2.20 lb)
Gross Weight	1.23 kg (2.71 lb)

Ordering Information				
Туре	Part Number	Description		
4MP Camera	DH-IPC- HFW5449T1P-ASE- D2-0280B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
	DH-IPC- HFW5449T1P-ASE- D2-0360B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
	DH-IPC- HFW5449T1P-ASE- D2-0600B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
	IPC-HFW5449T1P- ASE-D2-0280B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
	IPC-HFW5449T1P- ASE-D2-0360B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
	IPC-HFW5449T1P- ASE-D2-0600B	4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera		
Accessories (Optional)	PFA130-E	Junction Box		
	PFA152-E	Pole Mount		
	PFM321D	12 VDC 1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Wiz Mind | DH-IPC-HFW5449T1-ASE-D2

Accessories

Optional:



PFA130-E Junction Box

PFA152-E Pole Mount



PFM321D 12 VDC 1A Power Adapter



LR1002-1ET/1EC

Single-port Long

Reach Ethernet over



PFM114 TLC SD Card

Ceiling Mount

Ceiling Mount

Nall Mount

Pole Mount(Vertical)

Ceiling Mount

Pole Mount(Vertical)

P

 \bigcirc 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.

www.dahuasecurity.com

Rev 001.001

PFM900-E Integrated Mount

Tester

Dimensions (mm[inch])





