



DH-IPC-HFW5449T1-ASE-D2

4 MP 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. 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.

Technical Specification						SMD 3.0	Less false alarm, longer detection distance		
Camera						Face detection; track; snapshot; snapshot			
Image Sensor		1/1.8" + 1/1.8" CMOS						optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 face attributes (gender,	
Max. Resolution		2688 (H) × 1520 (V)				Face Detection	age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared,		
ROM		128 MB					race Betection	surprised, calm, happy, confused); face snapshot set as face, one-inch photo or custom; 3 snapshot	
RAM		1 GB						strategies (real-time snapshot, optimization snapshot and quality first); face angle filter;	
Scanning System		Progressive					optimization time setting		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						Support the counting of enter number, leave number and pass number, and displaying and	
Min. Illumination		0.0002 lux @F1.0				People Counting	outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time		
S/N Ratio		>56 dB					reopic counting	and link alarm. Support queue management, and 4 rules	
Illumination Distance		50 m (164.04 ft)						configuration. Count number of people or stay time and link alarm.	
Illuminator On	/Off Control	Auto; manual						Work together with Smart NVR to perform refine	
Illuminator Nu	ımber	4 (IR light); 2 (warm light)					Intelligent Search	intelligent search, event extraction and merging to event videos	
Pan/Tilt/Rotat	ion Range	Pan: 0°-360 Tilt: 0°-90°	٥				Video		
Pan/Tilt/Rotation Range		Rotation: 0°–360°					Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	
Lens							Smart Codec	Smart H.265+; Smart H.264+	
Lens Type		Fixed-focal					Al Coding	AI H.265; AI H.264	
Lens Mount Focal Length		M16	M16 2.8 mm; 3.6 mm; 6 mm				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)	
Max. Aperture	<u>.</u>	F1.0							
man per care	-	2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal:						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Field of View		3.6 mm: Ho	115° 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°				Stream Capability	3 streams	
Iris Control		Fixed						4M (2688 × 1520); 1080p (1920 × 1080); 1.3M (1280	
Close Focus Distance		2.8 mm: 4 m (13.1 ft) 3.6 mm: 5 m (16.4 ft)					Resolution	× 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
		6 mm: 6 m (19.7 ft)				Bit Rate Control	CBR/VBR		
	Lens	Detect	Observe	Recognize	Identify		Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps	
DORI	2.8 mm	58.2 m (190.94 ft)	23.3 m (76.44 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		Day/Night	Color/B/W	
Distance	3.6 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)		BLC	Yes	
	6 mm	116.1 m (380.91 ft)	46.5 m (152.56 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)		HLC	Yes	
Smart event		(223221)				WDR	DWDR		
IVS		Abandoned object; missing object					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Heat Map		Yes					Gain Control	Auto; manual	
Professional, intelligent							Noise Reduction	3D NR	
		Tripwire; intrusion; fast moving (the three functions					Motion Detection	OFF/ON (4 areas, rectangular)	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					Region of Interest (RoI)	Yes (4 areas)	
		Same ring, parking acceptain					Image Rotation	$0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Support $90^{\circ}\!/270^{\circ}$ with $1080p$ resolution and lower)	

Mirror	Yes				
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					
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: 5 mA 3 V–5 VDC				
Alarm Output	1 channel out: 300 mA 12 VDC				
Power					
Power Supply	12 VDC (±30%); PoE (802.3af); ePoE				
Power Consumption	Basic: 3.4 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 \times 94.4 mm \times 84.7 mm (11.35" \times 3.72" \times 3.33") (L \times W \times H)
Net Weight	1.0 kg (2.20 lb)
Gross Weight	1.23 kg (2.71 lb)

Ordering Information				
Туре	Part Number	Description		
	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		
4 MP 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		
	PFA130-E	Junction Box		
	PFA152-E	Pole Mount		
Accessories (Optional)	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA152-E Pole Mount



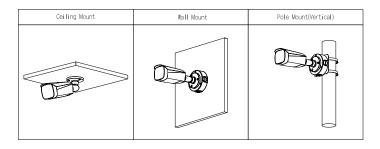
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

