



# 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	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					People Counting	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 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.
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						Work together with Smart NVR to perform refine
Illuminator N	Illuminator Number		! (warm light)				Intelligent Search	intelligent search, event extraction and merging to event videos
Pan/Tilt/Rota	tion Range	Pan: 0°–360 Tilt: 0°–90°	•				Video	
Lens		Rotation: 0°–360°					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Lens Type		Fixed-focal					Smart Codec	Smart H.265+; Smart H.264+
Lens Mount		M16					Al Coding	AI H.265; AI H.264
Focal Length			mm; 6 mm					Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@
Max. Aperture		F1.0					Video Frame Rate	(1–30 fps) Third stream: 1920 × 1080@(1–25/30 fps)
		2.8 mm: Hoi	rizontal: 97°; '	Vertical: 48°; I	Diagonal:			*The values above are the max. frame rates of each stream; for multiple streams, the values will be
Field of View		3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°					Stroom Canability	subjected to the total encoding capacity.  3 streams
Iris Control		Fixed					Stream Capability	
Close Focus Distance		2.8 mm: 4 m (13.1 ft) 3.6 mm: 5 m (16.4 ft) 6 mm: 6 m (19.7 ft)					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)
	Lens	Detect	Observe	Recognize	Identify		Bit Rate Control	CBR/VBR
	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)		Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 19 kbps–8192 kbps
	3.6 mm	70.3 m	28.1 m	14.1 m	7.0 m		Day/Night	Color/B/W
DORI Distance	3.0 111111	(230.64 ft)	(92.19 ft)	(46.26 ft)	(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
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						WDR	DWDR
	The numbers in	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					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		ng manual/project design tool.					Gain Control	Auto; manual
Smart eve	nt						Noise Reduction	3D NR
IVS		Abandoned object; missing object					Motion Detection	OFF/ON (4 areas, rectangular)
Heat Map		Yes					Region of Interest (RoI)	Yes (4 areas)
Profession	al, intelligent						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people					Mirror	Yes
1V3 (renimeter Frotection)		of vehicle ar	na human); lo	itering detect	ion; people			

gathering; parking detection

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



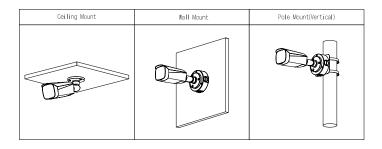
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

