

# 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.
- · 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, 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 ±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 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	
Camera		1/1 8" + 1/2 8" CMOS						
Image Sensor		1/1.8" + 1/2.8" CMOS 2688 (H) × 1520 (V)						Face Detection
Max. Resolution		128 MB						as face or one-inch photo; snapshot strategies (real- time snapshot, quality priority and optimization
ROM		1 GB						snapshot); face angle filter; optimization time setting
RAM Scanning System		Progressive					People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/
Scanning System  Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management
Min. Illumination		0.0002 lux @F1.0						Work together with Smart NVR to perform refine
S/N Ratio		> 56 dB					Intelligent Search	intelligent search, event extraction and merging to event videos
Illumination Distance		50 m (164.04 ft)					Video	
Illuminator On/Off Control		Auto; manual					Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Illuminator Nu	mber	4 (IR light); 2 (warm light)					Smart Codec	Smart H.265+; Smart H.264+
Pan/Tilt/Potat	ion Range	Pan: 0°-360° Tilt: 0°-90°					Al Coding	AI H.265; AI H.264
Pan/Tilt/Rotation Range  Lens Lens Type		Rotation: 0°–360°  Fixed-focal					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
Lens Mount		M16 + M12						subjected to the total encoding capacity.
Focal Length		2.8 mm; 3.6 mm; 6 mm					Stream Capability	3 streams
Max. Aperture		F1.0 + F1.6					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)
Field of View		2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: 115° 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87°					Bit Rate Control	CBR/VBR
leis Combact		6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56°					Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 19 kbps–8192 kbps
Iris Control		2.8 mm: 2 m (6.56 ft)					Day/Night	Color/B/W
Close Focus Distance		3.6 mm: 2 m (6.56 ft) 6 mm: 2.5 m (8.20 ft)					BLC	Yes
	Lens	Detect	Observe	Recognize	Identify		HLC	Yes
	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)		WDR	DWDR
DORI 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)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	6 mm	116.1 m	46.5 m	23.2 m	11.6 m		Gain Control	Auto; manual
6 1		(380.9 ft)	(152.6 ft)	(76.1 ft)	(38.1 ft)		Noise Reduction	3D NR
Smart ever	IT.						Motion Detection	OFF/ON (4 areas, rectangular)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Professional, intelligent		Yes					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
	.,	Tripwire; intrusion; fast moving (the three functions					Mirror	Yes
IVS (Perimeter	Protection)	support the	classification	and accurate	detection		Privacy Masking	4 areas
		gathering; parking detection					Audio	
SMD 3.0		Less false alarm, longer detection distance					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: 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 $\times$ 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			
4MP 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	PFM321D	12 VDC 1A Power Adapter			
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

#### **Accessories**

### Optional:







PFA152-E Pole Mount



PFM321D 12 VDC 1A Power Adapter



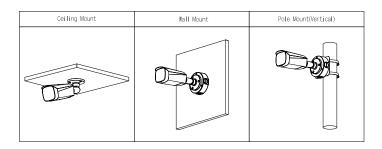
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



## Dimensions (mm[inch])

