



dahua DH-IPC-HFW5449T1-ZE-LED Camera User Guide

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DH-IPC-HFW5449T1-ZE-LED
4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera



WizMind

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.

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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 dustproof function, waterproof function, and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Full-color

With high-performance sensors and large aperture lenses, Dahua Full-color technology can display clear colorful images in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture

more available light, and display more colorful image details.

Face Detection

Dahua Face Detection technology can detect the face in the image. With a deep learning algorithm, the technology supports detecting, tracking, capturing, and selecting the best face image, and then outputs face snapshot.

Perimeter Protection

With a deep learning algorithm, Dahua Perimeter Protection technology can recognize humans and vehicles accurately. In the restricted areas (such as pedestrian areas and vehicle areas), the false alarms of intelligent detection based on the target type (such as tripwire, intrusion, fast-moving, parking detection, loitering detection, and gathering detection) are largely reduced.

- 4MP, 1/1.8" CMOS image sensor, low illuminance, high definition image
- Outputs max. 4MP (2688 × 1520) @25/30 fps
- Built-in warm illuminator, and the max. illumination distance is 60 m
- ROI, SMART 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
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic, and speaker
- 12V DC/PoE power supply
- IP67 protection
- SMD Plus



People Counting

With a deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of entering No., leave No., and In Area No. Working with the management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as secure authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict tests on dust and soak. It has a dust-proof function and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environments with unstable voltage.

Technical Specification

Camera	
Image Sensor	1/1.8"4Megapixel progressive CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.0005Lux@F1.0
S/N Ratio	>56 dB
Illumination Distance	60m(196.85 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	4(Warm Light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°
Lens	
Lens Type	Motorized varifocal
Mount Type	φ14
Focal Length	2.7 mm–12 mm
Max. Aperture	F1.0
Field of View	Horizontal: 115°–48° Vertical: 59°–27° Diagonal: 142°–55°
Iris Type	Auto
Close Focus Distance	1.75m(5.74 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	60.4 m (198.2 ft)	24.1 m (79.1 ft)	12 m (39.4 ft)	6 m (19.7 ft)
	T	128.6 m (421.9 ft)	51.4 m (168.6 ft)	25.7 m (84.3 ft)	12.8 m (42.0 ft)

Smart event	
IVS	Abandoned object; missing object
Heat Map	Yes
Professional, intelligent	
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
Face Detection	Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting; face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting

People Counting	Support the counting of entering a number, leave a number and pass number, and displaying and outputting yearly/ monthly/weekly/daily reports Support the counting of number in the area, and 4 rules configuration Count the number of people or stay time and link alarm Support queue management, and 4 rules configuration. Count the number of people or stay time and link alarm Support queue management, and 4 rules configuration. Count the number of people or stay time and link alarm.
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.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/Smart 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
Stream Capability	3 streams
Resolution	4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)

Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	140 dB
Scene Self-adaptation (SSA)	Yes
White Balance	uto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas)
Region of Interest (RoI)	Yes (4 areas)
Image Rotation	0°/90°/180°/270°
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; voltage detection; motion detection; video tampering; scene changing; audio detection; 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; parking detection; people counting; face detection; SMD
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP

Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WS SE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; Syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
User/Host	20 (Total bandwidth: 80 M)
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
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 2.2W (12 V DC); 2.8 W (PoE) Max. (H.265+Face detection+LED on): 9.9 W (12V DC); 10.9 W (PoE)
Environment	
Operating Conditions	–30°C to +60°C (–22°F to +140°F)/Less than 95% RH
Storage Conditions	–40°C to +60°C (–40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Metal
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.4" × 3.7" × 3.3") (L × W × H)
Net Weight	1.0 kg (2.2 lb)

Gross Weight	1.23 kg (2.7 lb)
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Ordering Information

Type	Part Number	Description
4MP Camera	DH-IPCHFW5449T1PZE-LED	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera, PAL
	IPC-HFW5449T1PZE-LED	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera, PAL
Accessories (optional)	PFA130-E	Junction Box
	PFA152-E	Pole Mount
	PFM321D	12V DC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

Accessories

Optional:



PFA130-E
Junction Box



PFA152-E
Pole Mount



PFM321D
12V DC 1A Power
Adapter



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



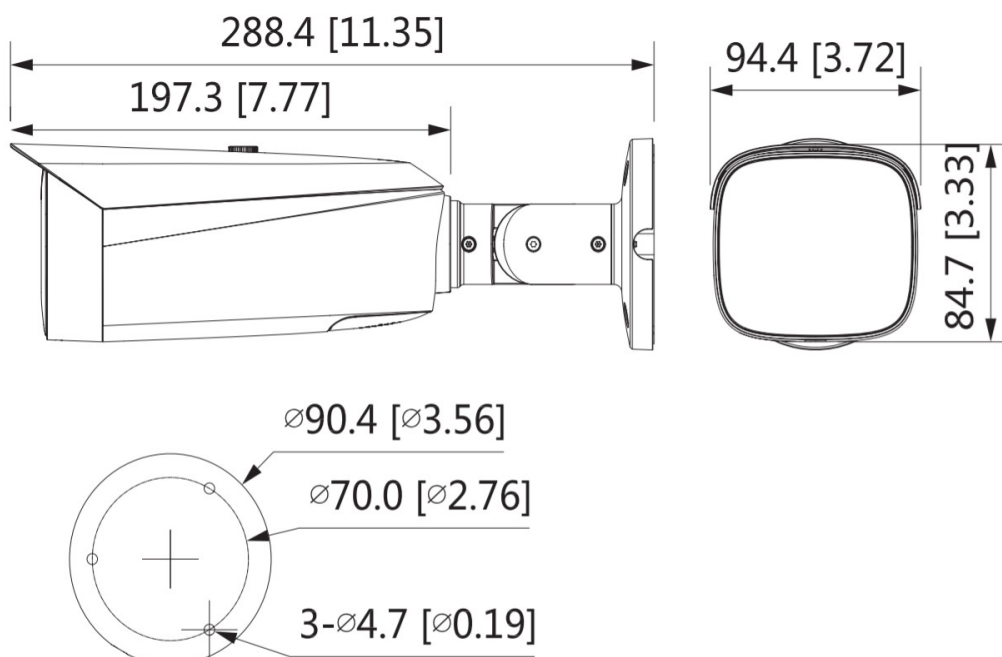
PFM900-E
Integrated Mount
Tester



PFM114
TLC SD Card

Junction Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm/inch)






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Documents / Resources

	<p>dahua DH-IPC-HFW5449T1-ZE-LED Camera [pdf] User Guide DH-IPC-HFW5449T1-ZE-LED Camera</p>
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References

- [Dahua Technology USA Inc - Dahua Technology USA Inc](#)