



DH-IPC-HFW5449T1-ZE-LED

4MP Full-color Vari-focal Warm LED Bullet WizMind 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 dustproof 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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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.

- · 4MP 1/1.8" CMOS image sensor, low illuminance, high image definition.
- · Outputs max. 4MP (2688 × 1520) @30 fps.
- · Built-in warm illuminator, and the max. illumination distance is 70 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.
- · 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.
- · ePoE, IP67 protection.
- · SMD 3.0.













People Counting

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

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow 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.

Image Sensor	Technical Specification								Support the counting of enter number, leave
Max. Resolution	Camera								number and pass number, and displaying and outputting yearly/ monthly/weekly/daily reports
Max. Resolution 2688 (H) × 1520 (V)	Image Sensor		1/1.8" CMOS					People Counting	configuration Count number of people or stay time
RAM	Max. Resolution		2688 (H) × 1520 (V)					r copie counting	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
Scanning System Progressive Intelligent Search Work together with Smart NVR to perform reintelligent search, event extraction and merging event video Wideo Compression Video Video Video Compression Video Video	ROM	ROM		128 MB					
Scanning System Progressive Progressive Intelligent Search Int	RAM		512 MB						
Video	Scanning System		Progressive					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Min. Illumination	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Video	event videos.
SyN Ratio > 56 dB	Min. Illumination		0.0005 Lux@F1.0						H.265; H.264; H.264H; H.264B; MJPEG (only
Illuminator On/Off Control Auto; Manual; Zoomprio	S/N Ratio	S/N Ratio		> 56 dB				Video Compression	
Illuminator On/Off Control Auto, Manual; Zoomprio	Illumination Dis	stance	70 m (229.66 ft)					Smart Codec	Smart H.265+/Smart H.264+
Hilluminator Number	Illuminator On,	/Off Control	Auto; Manual; Zoomprio						
Pan/Tilt/Rotation Range	Illuminator Number							Video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the
Lens Type	Pan/Tilt/Rotation Range		Tilt: -20°-90°					Stream Capability	3 streams
Mount Type								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
Focal Length									
Max. Aperture Field of View Horizontal: 115*-48* Vertical: 59*-27* Diagonal: 142*-55* Iris Type Close Focus Distance Lens Detect Doserve Lens Detect Doserve Recognize I (198.2 ft) T 128.6 m (191.2 ft) T 128.6 m (421.9 ft) (168.6 ft) Smart event IVS Abandoned object; missing object Heat Map Professional, intelligent Video Bit Rate H.265: 3 kbps-20480 kbps Day/Night Color/B/W BLC Yes HLC Yes WDR 140 dB Defog Yes Work Auto/natural/street lamp/outdoor/manual/re custom White Balance Auto/natural/street lamp/outdoor/manual/re custom Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Wes Image Rotation O'90°/180°/270° Privacy Masking BLC Yes WDR 140 dB Defog Yes White Balance Auto/natural/street lamp/outdoor/manual/re custom OofF/ON (4 areas, rectangular) Mirror Yes Image Rotation O'90°/180°/270° Privacy Masking								Bit Rate Control	
Field of View			2.7 mm-12 mm					Video Bit Rate	· · · · · · · · · · · · · · · · · · ·
Field of View Vertical: 59°-27° Diagonal: 142"-55° Iris Type Auto Close Focus Distance 1.75m(5.74 ft) Defect Observe Recognize Identify W 6.0.4 m (198.2 ft) (79.1 ft) (39.4 ft) T 128.6 m (421.9 ft) (168.6 ft) IVS Abandoned object; missing object Froffessional, intelligent IVS (Perimeter Protection) Vertical: 59°-27° Diagonal: 142"-55° Auto Recognize Identify W WDR 140 dB Defog Yes White Balance Auto/natural/street lamp/outdoor/manual/recustom Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Yes Image Rotation O'900"/180"/270° Privacy Masking 8 areas Privacy Masking 8 areas	Max. Aperture							Day/Night	Color/B/W
First Type	Field of View		Vertical: 59°–27°					BLC	Yes
Close Focus Distance Lens Detect Observe Recognize Identify	Iris Type							HLC	Yes
Lens Detect Observe Recognize Identify W 60.4 m (198.2 ft) (79.1 ft) (39.4 ft) (19.7 ft) T 128.6 m (421.9 ft) (168.6 ft) (84.3 ft) (42.0 ft) Noise Reduction T Abandoned object; missing object Heat Map Professional, intelligent Defog Yes White Balance Custom Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Wise Privacy Masking Auto/natural/street lamp/outdoor/manual/recustom Auto/Manual Auto/Manual Noise Reduction OFF/ON (4 areas, rectangular) Mirror Yes Privacy Masking								WDR	140 dB
DORI Distance W 60.4 m (198.2 ft) (79.1 ft) (39.4 ft) (19.7 ft) T 128.6 m (421.9 ft) (168.6 ft) (84.3 ft) (42.0 ft) Noise Reduction Motion Detection Frofessional, intelligent O*90°/180°/270° Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people White Balance Auto/natural/street lamp/outdoor/manual/recustom Gain Control Auto/Manual Noise Reduction OFF/ON (4 areas, rectangular) Frofessional, intelligent White Balance Auto/natural/street lamp/outdoor/manual/recustom Gain Control Noise Reduction OFF/ON (4 areas, rectangular) Frofessional O°/90°/180°/270° Mirror Yes Privacy Masking 8 areas		Lens			Recognize	Identify		Defog	Yes
T 128.6 m (421.9 ft) 51.4 m (84.3 ft) 12.8 m (42.0 ft) Noise Reduction 3D NR Smart event IVS Abandoned object; missing object Region of Interest (RoI) Yes (4 areas) Professional, intelligent Mirror Yes IVS (Perimeter Protection) Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people	DORI	W			12 m	6 m		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Smart event Noise Reduction OFF/ON (4 areas, rectangular) IVS Abandoned object; missing object Region of Interest (RoI) Professional, intelligent Mirror Yes Image Rotation O*/90*/180*/270* Mirror Yes Ivs (Perimeter Protection) Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people	Distance	-						Gain Control	Auto/Manual
IVS Abandoned object; missing object Region of Interest (RoI) Yes (4 areas) Heat Map Yes Image Rotation 0°/90°/180°/270° Professional, intelligent Mirror Yes IVS (Perimeter Protection) Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people			(421.9 ft)	(168.6 ft)	(84.3 ft)	(42.0 ft)		Noise Reduction	3D NR
Heat Map Yes Image Rotation 0°/90°/180°/270° Professional, intelligent Mirror Yes Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people	Smart even	t						Motion Detection	OFF/ON (4 areas, rectangular)
Professional, intelligent Mirror Yes IVS (Perimeter Protection) Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people			Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people			Yes					Image Rotation	0°/90°/180°/270°
IVS (Perimeter Protection) support the classification and accurate detection of vehicle and human); loitering detection; people	Professional, intelligent							Mirror	Yes
of venicle and numan); follering detection; people	IVS (Parimeter	Protection)	support the classification and accurate detection of vehicle and human); loitering detection; people					Privacy Masking	8 areas
	ivs (reinnetei	riotection						Audio	
Face detection; track; optimization; snapshot; face Built-in MIC Yes								Built-in MIC	Yes
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	Face Detection		face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

Wiz Mind DH	I-IPC-HFW5449T1-ZE-LED
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; HTTPs; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
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
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8 and later 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: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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 (±30%)/PoE (802.3af)/ePoE
Power Consumption	Basic: 2.4 W (12 VDC); 3.4 W (PoE) Max. (H.265 + 3 streams + intelligence + LED): 7.6 W (12 VDC); 9.3 W (PoE)
Environment	
Operating Conditions	−30°C to +60°C (−22°F to +140°F)/Less than 95% RH

-40°C to +60°C (-40°F to +140°F)

IP67

Storage Conditions
Protection Grade

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)

Ordering Information								
Туре	Part Number	Description						
4MP Camera	DH-IPC- HFW5449T1P-ZE- LED-2712	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera, PAL						
	IPC-HFW5449T1P- ZE-LED-2712	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera, PAL						
	PFA130-E	Junction Box						
	PFA152-E	Pole Mount						
Accessories	PFM321D	12V DC 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:



PFA130-E Junction Box



PFA152-E Pole Mount



PFM321D 12V DC 1A Power Adapter



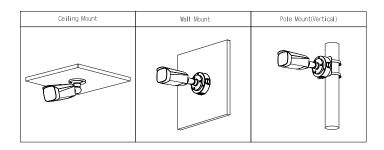
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



Dimensions (mm[inch])

