



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 full color solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including video metadata, face detection, perimeter protection and people counting, etc. 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.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.

*The parameters and datasheets below can only be applied to 5449-ZE-S2 series.

- · 4-MP 1/1.8" CMOS image sensor, low illuminance, high image definition.
- · Outputs max. 4 MP (2688 × 1520) @30 fps.
- · Built-in warm light and the max. illumination distance is 70 m.
- · ROI, SVC, 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.
- · With deep learning algorithm, it supports: video metadata,IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card, built-in dual Mic and speaker.
- · 12 VDC/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

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.

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.

queue management.

Heat Map

Technical	Specification	on					Motor vehicle, non-motor vehicle, face, and human body
Camera							detection; snapshot; snapshot optimization; optimal face snapshot upload.
Image Sensor		1/1.8" CMOS				Video Metadata	Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6
Max. Resolution		2688 (H) × 1520 (V)					attributes for non-motor vehicle Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body.
ROM	ROM						Work together with Smart NVR to perform refine
RAM	RAM					Smart Search	
Scanning System		Progressive				Video	
Electronic Sh	Electronic Shutter Speed		1/3 s-1/100,0	00 s		Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Min. Illumina	Min. Illumination		-1.0			Smart Codec	Smart H.265+; Smart H.264+
S/N Ratio		> 56 dB				Al Coding	AI H.265; AI H.264
Illumination	Distance	Up to 70 m (229.66 ft)				Arcoung	Main stream: 2688× 1520@(1 fps-25/30 fps)
Illuminator On/Off Control Illuminator Number		Auto; Manua 4 (Warm ligh				Video Frame Rate	Sub stream: D1@(1 fps-25/30 fps) Third stream: 1080p@(1 fps-25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°				Stream Capability	to the total encoding capacity. 3 streams
Long		Rotation: 0°–360°				on on one of the original or of	2688 × 1520; 2560 × 1440; 2048 × 1536; 2304 × 1296;
Lens Type		Motorized vari-focal				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)
Lens Mount		Module				Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-12 mm				Video Bit Rate	H.264: 32 kbps-8192 kbps
Max. Aperture		F1.0 (Constant)				Day/Night	H.265: 12 kbps–8192 kbps Color/B/W
Field of View	Field of View		.1° .° .9°			BLC	Yes
Iris Control		D: 127.6°-64.9° Auto				HLC	Yes
Close Focus	Distance	1.5 m (4.92 ft)				WDR	140 dB
	Lens	Detect	Observe	Recognize	Identify	Scene Self-adaptation (SSA)	Yes
DORI Distance	W	65.10 m (213.58 ft)	26.04 m (85.43 ft)	13.02 m (42.72 ft)	6.51 m (21.36 ft)	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Т	111.45 m (365.65 ft)	44.58 m (146.26 ft)	22.29 m (73.13 ft)	11.14 m (36.55 ft)	Gain Control	Auto; manual
Intelligen	ce					Noise Reduction	3D NR
			owire, fast mov			Motion Detection	OFF/ON (4 areas, rectangular)
IVS (Perimet	er Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				Region of Interest (RoI)	Yes (4 areas)
Smart Object Detection		Smart abandoned object; smart missing object				Defog	Yes
SMD 3.0		Less false alarm, longer detection distance				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
Face Detection		Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face				Mirror	Yes
		exposure; fac		traction includi	ng 6 attributes	Privacy Masking	4 areas
		photo; snaps priority and o	hot strategies (optimization sn	real-time snap	shot, quality	Audio	
		optimization time setting.				Built-in MIC	Yes
People Counting		Tripwire people counting and people counting in area; generating and exporting report (day/month/year); 4 rules can be set for tripwire, people counting in area and			th/year); 4	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; scene changing; audio detection; voltage detection; external alarm; face detection; SMD; security exception; people detection; area people counting; stay alarm; people counting; people number exception detection	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; SNMP; P2P	
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
User/Host	20 (Total bandwidth: 80 M)	
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS	
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later	
Management Software	SmartPSS Lite; DSS; DMSS	
Mobile Client	iOS; Android	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Certification		
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	2 channel in: wet contact, 5mA 3V–5V DC	
Alarm Output	1 channel out: wet contact, 300mA 12V DC	
Power		
Power Supply	12 VDC/PoE+ (802.3at)/ePoE	
Power Consumption	Basic: 2.7 W (12 VDC); 4.2 W (PoE) Max. (H.265+ warm light+ intelligence on + three streams): 11.3 W (12 VDC); 13 W (PoE)	
Environment		
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Operating Humidity	≤95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67	

10%–95% (RH), non-condensing

Storage Humidity

Structure

Casing Material	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	1050 g (2.31 lb)
Gross Weight	1470 g (3.24 lb)

Ordering Information					
Туре	Model	Description			
4MP Camera	DH-IPC-HFW5449T1-ZE-LED	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera			
	IPC-HFW5449T1-ZE-LED	4MP Full-color Vari-focal Warm LED Bullet WizMind Network Camera			
	PFA130-E	Water-proof Junction Box			
	PFA152-E	Pole Mount Bracket			
Accessories (Optional)	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





