



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.

Technical Specification						Heat Map	Yes
Camera							Motor vehicle, non-motor vehicle, face, and human boo
Image Sensor		1/1.8" CMOS					detection; snapshot; snapshot optimization; optimal fac snapshot upload.
Max. Resolution		2688 (H) × 1520 (V)				Video Metadata	Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6
ROM		256 MB					attributes for non-motor vehicle Extraction of face and human body attributes: extracts of attributes for face and 8 attributes for human body.
RAM		1 GB					attributes for face and 8 attributes for human body. Work together with Smart NVR to perform refine
Scanning System		Progressive				Smart Search	intelligent search, event extraction and merging to even videos
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video	, , , , , , , , , , , , , , , , , , , ,
Min. Illumination		0.0005 lux@F1.0				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
S/N Ratio		>56 dB					by the sub stream)
Illumination	Distance	Up to 70 m (229.66 ft)				Smart Codec	Smart H.265+; Smart H.264+
Illuminator C	n/Off Control	Auto; Manual; Zoomprio				Al Coding	AI H.265; AI H.264
Illuminator Number Angle Adjustment		4 (Warm light) Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Video Frame Rate	Main stream: 2688× 1520@(1 fps-25/30 fps) 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 subjecte to the total encoding capacity.
Lens						Stream Capability	3 streams
Lens Type		Motorized vari-focal				Resolution	2688 × 1520; 2560 × 1440; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Lens Mount Focal Length		Module 2.7 mm–12 mm					× 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CII (352 × 288/352 × 240)
Max. Aperture		F1.0 (Constant)				Bit Rate Control	CBR/VBR
Field of View		H: 104.7°–56.1° V: 54.9°–31.4°				Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–16384 kbps
		D: 127.6°-64.9°				Day/Night	Color/B/W
Iris Control		Auto				BLC	Yes
Close Focus I	Distance	1.5 m (4.92 ft)				HLC	Yes
	Lens	Detect	Observe	Recognize	Identify	WDR	140 dB
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)	Scene Self-adaptation (SSA)	Yes
	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)	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Intelligend	ce					Gain Control	Auto; manual
IVS (Perimete	er Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection			ection	Noise Reduction	3D NR
175 (1 6111160	er i rotection,	of vehicle and human); loitering detection, people gathering, and parking detection				Motion Detection	OFF/ON (4 areas, rectangular)
Smart Object	Detection	Smart abandoned object; smart missing object				Region of Interest (RoI)	Yes (4 areas)
SMD		SMD 3.0				Defog	Yes
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
		videos to quickly locate targets.				Mirror	Yes
Face Detection		Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.			ement; face	Privacy Masking	4 areas
					e or one-inch	LDC	Yes
						Audio	
		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 queue management.			-	Built-in MIC	Yes, built-in dual Mic
People Counting						Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

queue management.

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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 11 and later Chrome: Chrome 45 and later Firefox: Firefox 46 and later Safari: Safari 12 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		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
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

Storage Humidity

IP67

10%-95% (RH), non-condensing

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







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])





