



DH-IPC-HFW5449E-SE-LED

4MP Full-color Fixed-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-SE-S2 series.

- · 4-MP 1/1.8" CMOS image sensor, low illuminance, high image
- · Outputs max. 4 MP (2688 × 1520) @30 fps.
- · Built-in warm light and the max. illumination distance is 30 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.
- · Supports max. 512 G Micro SD card, built-in Mic.
- · 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								Face detection; snapshot; snapshot optimization;
Camera				Face Detection	optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attribute and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality			
Image Sensor		1/1.8" CMOS				Face Detection		
Max. Resolution		2688 (H) × 1520 (V)						priority and optimization snapshot); face angle filter; optimization time setting.
ROM		256 MB					People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); 4
RAM		1 GB					rules can be set for tripwire, people counting in area and queue management.	
Scanning System		Progressive					Heat Map	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						Motor vehicle, non-motor vehicle, face, and human body
Min. Illumination		0.0005 lux@F1.0				Video Metadata	detection; snapshot; snapshot optimization; optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6 attributes for non-motor vehicle Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body.	
S/N Ratio		> 56 dB						
Illumination Distance		Up to 30 m (98.43 ft)						
Illuminator O	n/Off Control	Auto; Manual					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Illuminator N	lumber	2 (Warm light)						
Angle Adjusti	Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°				Video	
Lens	Lens		Rotation: 0°–360°				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Type			Fixed-focal				Smart Codec	Smart H.265+; Smart H.264+
Lens Mount			M16				AI Coding	AI H.265; AI H.264
Focal Length		2.8 mm; 3.6 mm					Video Frame Rate	Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080@(1–35/30 fps)
Max. Aperture		F1.0						Third stream: 1080p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected.
Field of View		2.8 mm: H: 112°; V: 60°; D: 135° 3.6 mm: H: 95°; V: 51°; D: 116°					Stream Capability	to the total encoding capacity. 3 streams
Iris Control	Iris Control		Fixed				Resolution	2688 × 1520; 2560 × 1440; 2048 × 1536; 2304 × 1296;
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.6 m (8.53 ft)						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)
	Lens	Detect	Observe	Recognize	Identify		Bit Rate Control	CBR/VBR
	2.8 mm	58.2 m (190.94 ft)	23.3 m (76.44 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–16384 kbps
DORI	3.6 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)		Day/Night	Color/B/W
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system						BLC	Yes
	video to distin	-62676-4) for defining the ability of a person viewing the eo to distinguish persons or objects within a covered area. The					HLC	Yes
	numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						WDR	140 dB
commissioning manual/project design tool. Intelligence							Scene Self-adaptation	Yes
		Intrusion, tripwire, fast moving (the three functions					(SSA) White Balance	Auto; natural; street lamp; outdoor; manual; regional
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people						custom
		gathering, and parking detection					Gain Control	Auto/Manual
Smart Object Detection		Smart abandoned object; smart missing object					Noise Reduction	3D NR
SMD		SMD 3.0					Motion Detection	OFF/ON (4 areas, rectangular)
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					Region of Interest (RoI)	Yes (4 areas)
		videos to quickly locate targets.					Defog	Yes
							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)

Mirror

Yes

Privacy Masking	4 areas	
LDC	Yes	
Audio		
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; 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	
Power		
Power Supply	12 VDC/PoE (802.3af)/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: 3.5 W (12 VDC); 4.7 W (PoE) Max. (H.265+ warm light+ intelligence on + WDR): 6.7 W (12 VDC); 8.4 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)	
Storage Humidity	10%–95% (RH), non-condensing	

Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	192.7 mm \times 70.5 mm \times 70 mm (7.59" \times 2.78" \times 2.76") (L \times W \times H)			
Net Weight	583 g (1.29 lb)			
Gross Weight	747 g (1.65 lb)			

Ordering Information						
Туре	Model	Description				
4MP	DH-IPC-HFW5449E-SE-LED	4MP Full-color Fixed-focal Warm LED Bullet WizMind Network Camera				
Camera	IPC-HFW5449E-SE-LED	4MP Full-color Fixed-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 PFA152-E
Water-proof Pole Mount Bracket
Junction Box

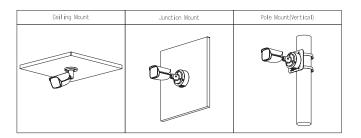
PFM321D 12 VDC 1A Power Adapter







TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

