



DH-IPC-HDW5449TM-SE-LED

4MP Full-color Fixed-focal Warm LED Eyeball 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 definition.
- · 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.



recillical	Specification	on			
Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) × 15	20 (V)		
ROM		256 MB			
RAM		1 GB			
Scanning Sys	tem	Progressive			
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumina	ntion	0.0005 lux@F	1.0		
S/N Ratio		> 56 dB			
Illumination	Distance	Up to 30 m (9	8.43 ft)		
Illuminator C	n/Off Control	Auto; Manual			
Illuminator N	lumber	2 (Warm light)		
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M16			
Focal Length		2.8 mm; 3.6 mm			
Max. Apertu	re	F1.0			
Field of View	,	2.8 mm: H: 112°; V: 60°; D: 135° 3.6 mm: H: 95°; V: 51°; D: 116°			
Iris Control		Fixed			
Close Focus I	Distance	2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.6 m (8.53 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	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)
Intelligend	ce				
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			
Smart Object Detection		Smart abandoned object; smart missing object			
SMD		SMD 3.0			
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 videos to quickly locate targets.			
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.			
	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 queue management.		

Heat Map	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body 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.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Al Coding	AI H.265; AI H.264
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 subjected to the total encoding capacity.
Stream Capability	3 streams
Resolution	2688 × 1520; 2560 × 1440; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–16384 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	140 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
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



Α	lar	m

No SD card; SD card full; S	D card error; network
disconnection; IP conflict;	illegal access; motion
detection; video tamperir	g; tripwire; intrusion; fast
moving; abandoned object	t; missing object; loitering
detection; people gatheri	ng; scene changing; audio
detection; voltage detecti	on; external alarm; face
detection; SMD; security	exception; people detection;
area people counting; star	alarm; people counting;
people number exception	detection

Network

Alarm Event

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

	CE-LVD: EN62368-1
Certifications	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: 2.4 W (12 VDC); 3.2 W (PoE) Max. (H.265+ warm light+ intelligence on + WDR): 8.4 W (12 VDC); 9.8 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)
Protection	IP67
Storage Humidity	10%–95% (RH), non-condensing

Structure

Casing Material	Inner core: metal Cover: metal Decoration ring: plastic Quick install mounting plate: metal
Product Dimensions	Φ122.0 mm × 104 mm (Φ4.80" × 4.09")
Net Weight	494 g (1.09 lb)
Gross Weight	711 g (1.57 lb)

Ordering Information		
Туре	Model	Description
4MP Camera	DH-IPC-HDW5449TM-SE-LED	4MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera
	IPC-HDW5449TM-SE-LED	4MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera
	PFA130-E	Water-proof Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
Accessories	PFA109	Mount Adapter
(Optional)	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Dimensions (mm[inch])

Optional:



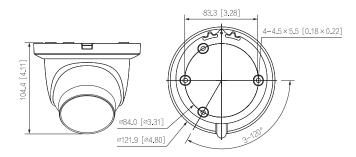
PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket





PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

