



DH-IPC-HDW5449H-ZE-LED

4MP Full-color Vari-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-ZE-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 50 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	on				Heat Map	Yes
Camera					Motor vehicle, non-motor vehicle, face, and human b		
Image Sensor		1/1.8" CMOS					detection; snapshot; snapshot optimization; optimal for snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and attributes for non-motor vehicle Extraction of face and human body attributes: extracts attributes for face and 8 attributes for human body. Work together with Smart NVR to perform refine
Max. Resolution		2688 (H) × 1520 (V)				Video Metadata	
ROM		256 MB					
RAM		1 GB					
Scanning System		Progressive				Smart Search	intelligent search, event extraction and merging to evideos
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video	Videos
Min. Illumination		0.0005 lux@F1.0				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only support
S/N Ratio		>56 dB					by the sub stream)
Illumination Distance		Up to 50 m (164.04 ft)				Smart Codec	Smart H.265+; Smart H.264+
Illuminator (On/Off Control	Auto; Manual; Zoomprio				AI Coding	AI H.265; AI H.264
Illuminator Number Angle Adjustment		4 (Warm light) Pan: 0°–360° Tilt: 0°–78° 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 subject 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 (128
Lens Mount		Module					× 720); D1 (704 × 576/704 × 480); VGA(640 × 480); (352 × 288/352 × 240)
Focal Length		2.7 mm-12 mm				Bit Rate Control	CBR/VBR
Max. Apertu		F1.0 (Constant) 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	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
Intelligen	ce					Gain Control	Auto; manual
IVS (Parimet	er Protection)	support the o	lassification ar	ing (the three f nd accurate det	ection	Noise Reduction	3D NR
ivs (reilliet	er Frotection)	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 videos to quickly locate targets.				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolut and lower)
						Mirror	Yes
Face Detection		Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face				Privacy Masking	4 areas
		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.			e or one-inch	LDC	Yes
						Audio	
People Counting		Tripwire people counting and people counting in area;				Built-in MIC	Yes, built-in dual Mic
		-	set for tripwire	port (day/moni , people counti		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				
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); 3.7 W (POE) Max. (H.265+ warm light+ intelligence on + three streams): 9.3 W (12 VDC); 11.1 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				
Storage Humidity	10%–95% (RH), non-condensing				

Structure

Casing Material	Inner core: metal Cover: metal		
Product Dimensions	Φ122.0mm × 127.6 mm (4.80" × 5.02")		
Net Weight	885 g (1.95 lb)		
Gross Weight	1120 g (2.47 lb)		

Ordering Information						
Туре	Model	Description				
4MP	DH-IPC-HDW5449H-ZE-LED	4MP Full-color Vari-focal Warm LED Eyeball WizMind Network Camera				
Camera	IPC-HDW5449H-ZE-LED	4MP Full-color Vari-focal Warm LED Eyeball WizMind Network Camera				
	PFA137	Junction Box				
	PFW203W	Wall Mount Bracket				
	PFA106	Mount Adapter				
Accessories	PFB220C	Ceiling Mount Bracket				
(Optional)	PFA152-E	Pole Mount Bracket				
	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:







PFB203W Wall Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter

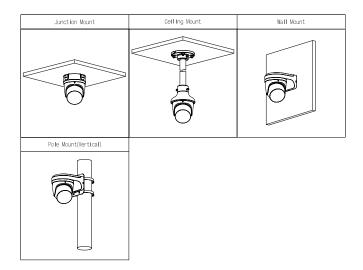


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

