

DH-IPC-HDW5849H-ASE-LED

8MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera



Wiz Mind

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 5849-ASE-S2 series.
- \cdot 8-MP 1/1.2" CMOS image sensor, low illuminance, high image definition.
- · Outputs max. 8 MP (3840 × 2160) @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: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card, built-in dual 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 work normally 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 out-door environment with instable voltage.

Full-color

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.

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Technical Specification

Smart Object Detection

SMD 3.0

Face Detection

People Counting

	-				
Camera					
Image Sensor		1/1.2" CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		256 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0005 lux@F1.0			
S/N Ratio		>56 dB			
Illumination Distance		Up to 50 m (164.04 ft)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (Warm light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M22			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.0			
Field of View		2.8 mm: H: 102°; V: 53°; D: 125° 3.6 mm: H: 88°; V: 48°; D: 104°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 5 m (16.40 ft) 3.6 mm: 6 m (19.68 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	95.6m (313.64 ft)	38.2 m (125.33 ft)	19.1 m (62.66 ft)	9.6 m (31.50 ft)
	3.6 mm	105.9 m (347.44 ft)	42.4 m (139.11 ft)	21.2 m (68.55 ft)	10.6 m (34.77 ft)
Smart event					
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 abandoned object; smart missing object

face or one-inch photo; snapshot strategies (realtime snapshot, quality priority and optimization snapshot); face angle filter; optimization time

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.

Less false alarm, longer detection distance 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

setting.

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	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) 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 to the total encoding capacity.
Stream Capability	3 streams
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 2M (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: 32 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
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes

Yes

Motor vehicle, non-motor vehicle, face, and human

Heat Map

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Audia Canana i				
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: IE9 and later Chrome Firefox Safari: Safari12 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	1 channel in: wet contact, 5mA 3V–5V DC			
Alarm Output	1 channel out: wet contact, 300mA 12V DC			
Power				
Power Supply	12 VDC/POE (802.3af)/ePoE			
Power Consumption	Basic: 3.6 W (12 VDC); 5 W (PoE) Max. (H.265+ warm light+ intelligence on + 3 streams): 7.9 W (12 VDC); 9.6 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	Φ122 mm × 119.7 mm (4.80" × Φ4.71")	
Net Weight	740g (1.63 lb)	
Gross Weight	960g (2.12 lb)	

Ordering Information

Туре	Part Number	Description	
8MP Camera	DH-IPC- HDW5849H-ASE- LED	8MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera	
	IPC-HDW5849H- ASE-LED	8MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera	
Accessories (Optional)	PFA130-E	Water-proof Junction Box	
	PFB205W-E	Wall Mount Bracket	
	PFA157	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	

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Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA109 Mount Adapter

PFM900-E

Integrated Mount

Tester



PFB220C Ceiling Mount Bracket

312GB U.42

TF-P100

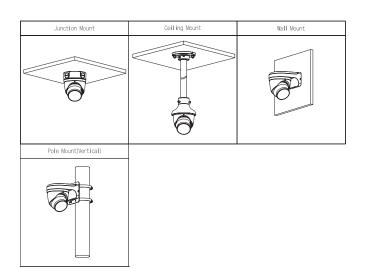
MicroSD Memory Card



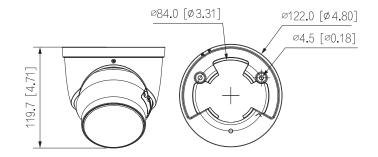
PFA157

Pole Mount Bracket

PFM321D 12 VDC 1A Power Adapter



Dimensions (mm[inch])



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