



DH-IPC-HDW5849H-ASE-LED

8MP 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 5849-ASE-S2 series.

- · 8-MP 1/1.2" CMOS image sensor, low illuminance, high image
- · 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 outdoor 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.

Technical Specification								Face detection; snapshot; snapshot optimization;
Camera								optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including
Image Sensor		1/1.2" CMOS					Face Detection	6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real- time snapshot, quality priority and optimization
Max. Resolution		3840 (H) × 2160 (V)						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 rules can be set for tripwire, people
RAM		2 GB						
Scanning System		Progressive						counting in area and queue management.
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Heat Map	Yes
Min. Illumination		0.0005 lux@F1.0					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.
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)					Work together with	Work together with Smart NVR to perform refine
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°						intelligent search, event extraction and merging to event videos
- /		Rotation: 0°–360°					Video	
Lens Tyne		Fixed-focal					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Type		M22					Smart Codec	Smart H.265+; Smart H.264+
Lens Mount Focal Length		2.8 mm; 3.6 mm					Al Coding	AI H.265; AI H.264
Max. Aperture		F1.0					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.
Field of View		2.8 mm: H: 102°; V: 53°; D: 125° 3.6 mm: H: 88°; V: 48°; D: 104°						
Iris Control		Fixed					Stream Capability	3 streams
Close Focus Distance		2.8 mm: 5 m (16.40 ft) 3.6 mm: 6 m (19.68 ft)						8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
	Lens	Detect	Observe	Recognize	Identify		Resolution	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)
	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)			
DORI	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)		Bit Rate Control	CBR/VBR
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.						Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 32 kbps–16384 kbps
							Day/Night	Color/B/W
_		unction distances, refer to installation and manual/project design tool.					BLC	Yes
Smart event	t						HLC	Yes
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection					WDR	140 dB
,		of vehicle and human); loitering detection, people gathering, and parking detection					Scene Self-adaptation (SSA)	Yes
Smart Object D	etection	Smart abandoned object; smart missing object					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
SMD		SMD 3.0					Gain Control	Auto/Manual
AcuPick		end devices	Uses deep learning algorithms and works with backend devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.				Noise Reduction	3D NR
							Motion Detection	OFF/ON (4 areas, rectangular)

Region of Interest (RoI)

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		
LDC	Yes		
Audio			
Built-in MIC	Yes, built-in dual Mic		
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	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
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: 3.6 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	Inner core: metal Cover: metal
Product Dimensions	Φ122 mm × 119.7 mm (4.80" × Φ4.71")
Net Weight	740g (1.63 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				
	PFA130-E	Water-proof Junction Box				
	PFB205W-E	Wall Mount Bracket				
	PFA157	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				

960g (2.12 lb)

Gross Weight

Accessories

Dimensions (mm[inch])

Optional:



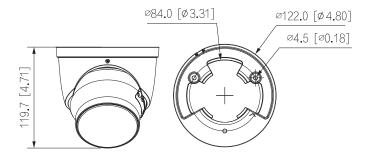
PFA130-E Water-proof Junction Box



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

