



DH-IPC-HFW5849T1-ASE-LED

8MP 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 5849-ASE-S2 series.

- · 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 60 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 and one 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 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	
RAM		2 GB						in area; generating and exporting report (day/ month/year); 4 rules can be set for tripwire, people	
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						Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization;	
S/N Ratio		> 56 dB					Video Metadata	optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes; extracts 6 attributes for motor vehicle	
Illumination Distance		Up to 60 m (196.85 ft)					Video Metadata	attributes: extracts a 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.	
Illuminator On/Off Control		Auto; Manual							
Illuminator Number		4 (Warm light)						Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°					Smart Search		
Angle Aujustinent		Rotation: 0°–360°					Video		
Lens							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		M22					Al Coding	AI H.265; AI H.264	
Focal Length		2.8 mm; 3.6 mm; 6 mm						Main stream: 3840× 2160@(1 fps-25/30 fps) Sub stream: D1@(1 fps-25/30 fps)	
Max. Aperture Field of View		F1.0 2.8 mm: H: 102°; V: 53°; D: 125° 3.6 mm: H: 88°; V: 48°; D: 104° 6 mm:H: 55°; V: 31°; D: 63°					Video Frame Rate	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.	
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) 6 mm: 13.2 m (43.37 ft)					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); 2M (7204 × 572/7404 × 480)); 700 (1400 × 480);	
	Lens	Detect	Observe	Recognize	Identify			720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
DORI	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)		Bit Rate Control	CBR/VBR	
Distance	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)		Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 32 kbps–16384 kbps	
	6 mm	161.4 m (529.53 ft)	64.6 m (211.94 ft)	32.3 m (105.97 ft)	16.1 m (52.8 ft)		Day/Night	Color/B/W	
Smart event		(2222.4)					BLC	Yes	
		Intrusion, tripwire, fast moving (the three functions					HLC	Yes	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					WDR	140 dB	
Smart Object Detection		Smart abandoned object; smart missing object					Scene Self-adaptation (SSA)	Yes	
SMD		SMD 3.0					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
AcuPick		Uses deep learning algorithms and works with backend devices to accurately match targets, such as					Gain Control	Auto;Manual	
		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)	

WIZ WIIIG BIT	11 6 11 7 36 13 11 7 32 22 3
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
LDC	Yes (only 2.8mm/3.6mm supports)
Audio	
Built-in MIC	Yes, built-in dual Mic
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Built-in Speaker	Yes
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 + (802.3at)/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: 4 W (12 VDC); 5.4 W (PoE) Max. (H.265+ warm light+ intelligence on + WDR): 12.9 W (12 VDC); 14.5 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	Metal	
Product Dimensions	288.4 mm × 94.4 mm × 90.4mm (11.35" × 3.72" × 3.60") (L × W × H)	
Net Weight	1150 g (2.53 lb)	

Ordering Information						
Туре	Part Number	Description				
8MP Camera	DH-IPC- HFW5849T1-ASE- LED	8MP Full-color Fixed-focal Warm LED Bullet WizMind Network Camera				
	IPC-HFW5849T1- ASE-LED	8MP Full-color Fixed-focal Warm LED Bullet WizMind Network Camera				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount Bracket				
Accessories (Optional)	PFM320D	12 VDC 2A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

1330 g (2.93 lb)

Gross Weight



Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



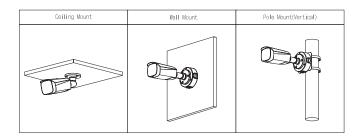
12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

