



DH-IPC-HFS8849G-Z3-LED

8MP High Temperature Tolerance WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS, 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 Al solutions for verticals.

Series Overview

Dahua WizMind 8 Series provides powerful network cameras that come with advanced deep learning algorithms and are designed with unique, sturdy structures. To meet the needs of a variety of industries, this series offers multiple types of cameras, such as the Explosion-Proof Network Camera, Classroom Network Camera, Dual-Lens Network Camera, Corner Network Camera, and High Temperature Tolerance Network Camera. It is ideal for use in various industries such as retail, finance, health care, education, energy and for judiciary purposes.

Functions

Hyper DoF

With Hyper DoF technology, DoF and iris of the camera can be adjusted separately. With the largest iris, the camera can display the image of large DoF.

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.

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.

- The intelligent temperature control system automatically opens and closes based on the ambient temperature, making the device suitable for environments with high-temperatures such as steel plants and boiler
- Works 24/7 in an environment that is 75°C (167°F), and works continuously for 12 hours in 85°C (185°F).
- Hyper DoF technology: DoF and iris of the camera can be adjusted separately. With the largest iris, the camera can display the image of large DoF.
- Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality
- Built-in GPU chips and deep learning algorithm, which can improve the detection accuracy.
- Five switchable intelligent resources: Video Metadata, face detection, face recognition, face statistics and perimeter protection.
- Five streams for three-channel HD video display.
- 8-MP 1/1.2" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@25/30 fps.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Alarm: 3 in, 2 out; audio: 2 in, 1 out; RS-485; BNC; supports max. 256 G Micro SD card.
- 100–240 VAC power supply, easy for installation.
- · IP67 protection.













Time-Division Exposure

Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality snapshots. It is widely used in scenes that have pedestrians and vehicles, and captures clear images of faces and license plates.

Technical	Specification	on			
Camera					
Image Sensor		1/1.2" CMOS			
Max. Resolution		3840 (H) × 21	.60 (V)		
ROM		8 GB			
RAM		4 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0003 lux@F1.2(Color, 30 IRE) 0.0001 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		80 m (262.47 ft) (warm light)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		6 (warm light)			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		CS			
Focal Length		12 mm-36 mm			
Max. Aperture		F1.2			
Field of View		H: 50°-17°; V: 28°-9°; D: 58°-19°			
Iris Control		Auto			
Close Focus I	Distance	1 m (3.28 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI	W	176.5 m (579.07 ft)	70.6 m (231.63 ft)	35.3 m (115.81 ft)	17.6 m (57.74 ft)
Distance	Т	503.4 m (1651.57 ft)	203.1 m (666.34 ft)	100.6 m (330.05 ft)	50.3 m (165.03 ft
Smart Eve	ent				
IVS		Abandoned object; missing object			
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			
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attribute (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); 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.			

Face Recognition	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 100,000 face pictures.
People Counting	Tripwire people counting and people counting in area, generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management
Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: License plate, plate color, vehicle color, vehicle logo, vehicle year, sun visor, seatbelt, smoking, calling, ornament, and annual inspection sticker and more. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, and gender. Face attributes: Gender, age, expressions, glasses, face mask, and bread.
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

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+		
Video Frame Rate	Main Stream: $3840 \times 2160@(1-25/30 \text{ fps})$ sub stream: $1920 \times 1080@(1-25/30 \text{ fps})$ third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ fourth stream: $1920 \times 1080@(1-25/30 \text{ fps})$ fifth stream: $1920 \times 1080@(1-25/30 \text{ fps})$ fifth stream: $704 \times 576@(1-25 \text{ fps})$; $704 \times 480@(1-30 \text{ fps})$		
Stream Capability	5 streams		
Resolution	8M (3840 × 2160); 6M (3072 × 2048/3072 ×1728); 5M (2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–14050 kbps		
Day/Night	Color		
BLC	Yes		
HLC	Yes		
WDR	120 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)		
Image Stabilization	Electronic Image Stabilization (EIS)		
Smart Illumination	Yes		
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		
Time-Division Exposure	Yes		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G.722.1; G.729		
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; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; face recognition; people counting in area; people counting; people number error detection; security exception		
Network			
Network Port	RJ-45 (10/100/1000 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; SAMBA; PPPoE; SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone		
User/Host	20		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE: IE 11 and earlier; Chrome: 88.0.4324.190 and earlier; Firefox: 47.0.2 and earlier		
Management Software	Smart PSS; DSS; PMS		
Mobile Client	iOS; Android		
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		

Port		
RS-485	1 (baud rate range:1200 bps–115200 bps)	
Audio Input	2 channels (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	3 channels in: 5 mA 3–5VDC	
Alarm Output	2 channels out: 1,000 mA 30VDC/500 mA 50VAC	
Power		
Power Supply	100–240 VAC 0.6 A	
Power Consumption	Basic: 22.5 W (220 V) Max. (Basic+ WDR+ Intelligence on + Illuminator on + Lens switching): 26 W (220 V)	
Environment		
Operating Temperature	−30 °C to +75 °C (−22 °F to +167 °F)	
Operating Humidity	≤95%	
Storage Temperature	−30 °C to +75 °C (−22 °F to +167 °F)	
Protection	IP67	
Structure		
Casing Material	Metal + plastic	
Product Dimensions	513.14 mm × 177.09 mm × 190.7 mm (20.20" × 6.97" × 7.50") (L × W × H)	
Net Weight	4.8 kg (10.58 lb)	

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HFS8849G-Z3-LED	8MP High Temperature Tolerance WizMind Network Camera		
	IPC-HFS8849G-Z3-LED	8MP High Temperature Tolerance WizMind Network Camera		
Accessories	DH-PFA150-SG	Pole Mount Bracket		
	DH-PFA162-SG	Pole Mount Bracket		
	DH-PFB605W-SG	Wall Mount Bracket		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

6.45 kg (14.22 lb)

Gross Weight



Accessories

Included:



DH-PFB605W-SG Wall Mount Bracket

Optional:



DH-PFA150-SG Pole Mount Bracket

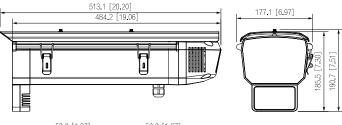


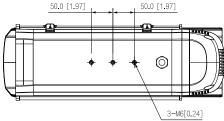
DH-PFA162-SG Pole Mount Bracket



PFM900-E Integrated Mount Tester

Dimensions (mm[inch])







TF-P100 MicroSD Memory Card

