



DH-IPC-HDW3849QM-S-IL

8MP Smart Dual Light Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 8 MP (3840 ×2160)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- ROI, 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.
- · Intelligent monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Max. 512 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply.
- IP67 protection.
- SMD 4.0.
- Supports AI SSA.
- SMD area can be set in warm light areas that support triggering alarms.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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.

Tochnical	Specification	an an						Manufacture and Country AND to the second and the s
	Specification	n					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to e
Camera		. 10					VC-L	videos
Image Sensor		1/2.7" CMOS					Video	HOSE HOSE HOSEL HOSEL NUMBER (O.)
Max. Resolution		3840 (H) × 2160 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only suppo by sub stream)
ROM		256 MB					AI Coding	AI H.265; AI H.264
RAM		1 GB						Sub stream: 1920 × 1080@(1–25/30 fps)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Resolution	8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/ × 240)
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)						
Illuminator On/Off Control		Auto;Manual					Bit Rate Control	VBR;CBR;ABR
Illuminator Number		2 (Multi-core (IR + warm) light)						H.264: 3 kbps–16384 kbps;
Angle Adiusti	ment	Pan: 0°–360° Tilt: 0°–80°					Video Bit Rate	H.265: 3 kbps–16384 kbps
Angle Adjustment		Rotation: 0°–360°					Day/Night	Auto(ICR)/Color/B/W
Lens							BLC	Yes
Lens Type		Fixed-focal					HLC	Yes
Lens Mount		M12					WDR	120 dB
Focal Length		2.8 mm; 3.6 mm					Scene Self-adaptation (SSA)	Yes
Max. Aperture		F1.4					White Balance	Auto; natural; street lamp; outdoor; manual; region custom
Field of View		2.8 mm: H: 110°; V: 58°; D: 132° 3.6 mm: H: 86°; V: 49°; D: 100°					Gain Control	Auto/Manual
Iris Control		Fixed					Noise Reduction	3D NR
Close Focus Distance		2.8 mm: 1.4 m (4.59 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
		3.6 mm: 1.9 m (6.23 ft)					Region of Interest (RoI)	Yes (4 areas)
	Lens	Detect	Observe		Identify		Smart Illumination	Yes
	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)		Smart Dual Light	Yes
	3.6 mm	98.7 m	39.5 m	19.7 m	9.9 m		Defog	Yes
DORI Distance	*DORI (Detec	(323.82 ft) (129.59 ft) (64.63 ft) (32.48 ft) ect, Observe, Recognize, Identify) is a standard system					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 15 resolution and lower)
		EN-62676-4) for defining the ability of a person viewing the video o distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and					Mirror	Yes
							Privacy Masking	8 areas
	commissioning manual/project design tool.						LDC	Yes
ntelligend	ce						Audio	
16 /B :			Intrusion, tripwire (the two functions support the				Built-in MIC	Yes, built-in Mic
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
SMD		SMD 4.0					·	, , , , , ,
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.					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; sce
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.						changing; audio detection; voltage detection SMD; security exception

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; SAMBA; PPPoE; SNMP; P2P						
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CGI						
User/Host	20 (Total bandwidth: 64 M)						
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS						
Browser	IE: IE11; Chrome; Firefox						
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care						
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;Session security;Security warning						
Certification							
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU						
Power							
Power Supply	12 VDC/PoE (802.3af)						
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: 3.7 W (12 VDC); 5.3 W (PoE); Max.: 7.4 W (12 VDC); 9.5 W (PoE) (H.265 + WDR + warm light + intelligence on)						
Environment							
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Operating Humidity	≤95% (RH), non-condensing						
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Storage Humidity	≤95% (RH), non-condensing						
Protection	IP67						
Structure							
Casing Material	Metal						
Product Dimensions	105.5 mm × Φ122.0 mm (4.16" × Φ4.80")						
Net Weight	0.53 kg (1.17 lb)						
Gross Weight	0.71 kg (1.57 lb)						

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HDW3849QM-S-IL	8MP Smart Dual Light Fixed- focal Eyeball WizSense Network Camera						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA109	Mount Adapter						
	DH-PFB305W	Wall Mount Bracket						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA150	Pole Mount Bracket						
Accessories (Optional)	DH-PFB206W	Wall Mount Bracket						
Accessories (Optional)	DH-PFA156	Pole Mount Bracket						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM321D-EN	DC12V 1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM900-E	Integrated Mount Tester						
	DHI-TF-P100/512GB	MicroSD Card						

Accessories

Optional:







DH-PFB220C Ceiling Mount Bracket



DH-PFA151

Corner Mount Bracket





DH-PFB305W









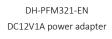
DH-PFB206W Wall Mount Bracket

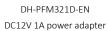






DH-PFA156 Pole Mount Bracket







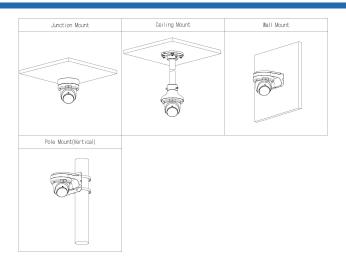




DH-PFM320D-EN DC12V2A power adapter

PFM900-E Integrated Mount Tester

DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

