

DH-IPC-HDW3449QM-S-IL-Black

4MP 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.

SMD 4.0

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.

 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 4 MP (2688 ×1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 50 m and the max.warm light distance is 50 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.
- Supports 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.

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Technical Specification Camera 1/2.9" CMOS Image Sensor Max. Resolution 2688 (H) × 1520 (V) ROM 256 MB RAM 1 GB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.005 lux@F1.4 (Color, 30 IRE) Min. Illumination 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Up to 50 m (164.04 ft) (IR) Illumination Distance Up to 50 m (164.04 ft) (Warm light) Illuminator On/Off Control Auto;Manual Illuminator Number 2 (Multi-core (IR + warm) light) Pan: 0°-360° Angle Adjustment Tilt: 0°–80° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.8 mm; 3.6 mm; 6 mm F1.4 Max. Aperture 2.8 mm: H: 100°; V: 56°; D: 117° Field of View 3.6 mm: H: 83°; V: 44°; D: 98° 6 mm: H: 51°; V: 28°; D: 60° Fixed Iris Control 2.8 mm: 1.0 m (3.28 ft) **Close Focus Distance** 3.6 mm: 1.5 m (4.92 ft) 6 mm: 3.2 m (10.50 ft) Lens Detect Observe Recognize Identify 12.3 m 61.6 m 24.6 m 6.2 m 2.8 mm (202.10 ft) (80.71 ft) (40.35 ft) (20.34 ft) 78.0 m 31.2 m 15.6 m 7.8 m 3.6 mm (255.91 ft) (102.36 ft) (25.59 ft) (51.18 ft) DORI Distance 24.8 m 124.0 m 49.6 m 12.4 m 6 mm (406.82 ft) (162.73 ft) (87.36 ft) (40.68 ft)

*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. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
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.

	Adapt doop loarning algorithms to adjust the perometers		
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.		
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 sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 1920 × 1080@(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will besubjected to the total encoding capacity.		
Stream Capability	3 streams		
Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	ABR;CBR;VBR		
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps		
Day/Night	Auto(ICR)/Color/B/W		
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)		
Smart Illumination	Yes		
Smart Dual Light	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	8 areas		
LDC	Yes		
Audio			
Built-in MIC	Yes, built-in 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; scene 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 ce rtification;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: 3.4 W (12 VDC); 5.0 W (PoE); Max.: 7.1 W (12 VDC); 9.2 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		

-40 °C to +60 °C (-40 °F to +140 °F)

105.5 mm × Φ122.0 mm (4.16" × Φ4.80")

≤95% (RH), non-condensing

IP67

Metal

0.53 kg (1.17 lb)

0.71 kg (1.57 lb)

Storage Temperature

Storage Humidity

Product Dimensions

Protection Structure **Casing Material**

Net Weight

Gross Weight

Туре	Model	Description
IP CAMERA	DH-IPC-HDW3449QM-S- IL-Black	4MP Smart Dual Light Fixed- focal Eyeball WizSense Network Camera
Accessories (Optional)	DH-PFB220C-B	Ceiling Mount Bracket
	DH-PFA109-B	Mount Adapter
	DH-PFB305W-B	Wall Mount Bracket
	DH-PFA151-B	Corner Mount Bracket
	DH-PFA150-B	Pole Mount Bracket
	DH-PFA156-B	Pole Mount Bracket
	DH-PFB203W-B	Wall Mount Bracket
	DH-PFA137-B	Junction Box
	DH-PFM321-EN	DC12V 1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V 2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/512GB	MicroSD Card

Accessories





DH-PFB220C-B

DH-PFA151-B

Corner Mount Bracket

Ordering Information





DH-PFB305W-B Wall Mount Bracket



DH-PFA156-B Pole Mount Bracket



DH-PFM321-EN DC12V 1A power adapter



PFM900-E Integrated Mount Tester

	DH-PF	M3200)-E
DC	12V 2A	power	ac



DHI-TF-P100/512GB MicroSD Card

Ceiling Mount Bracket

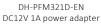


DH-PFA150-B Pole Mount Bracket



DH-PFB203W-B Wall Mount Bracket







DH-PFA109-B Mount Adapter





DH-PFA137-B Junction Box

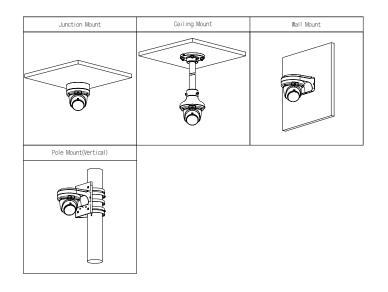


ΕN dapter

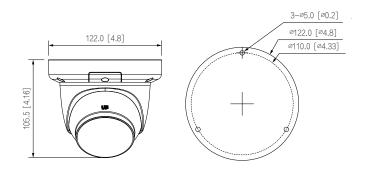




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Dimensions (mm[inch])



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