

DH-IPC-HDW3849H-AS-PV

8 MP Smart Dual Illumination Active Deterrence 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

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Smart Dual Illuminators

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

* The parameters and datasheets below can only be applied to 3849-PV-S4 series.

- 8-MP 1/2.8" 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 warm light and IR LED; the max. IR illumination distance is 30 m and 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, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 4.0.
- One press arming/disarming through alarm input.



One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification						
Camera						
Image Sensor		1/2.8" CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		1 (IR LED) 1 (warm light)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens	Lens					
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		2.8 mm; 3.6 mm				
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°				
Iris Type	Iris Type		Fixed			
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (6.23 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	91.0 m (298.56 ft)	36.4 m (119.42 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)	
Intelligent						
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)				
SMD 4.0		Less false alarm, longer detection distance				
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				

Video				
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+			
AI Coding	AI H.265; AI H.264			
Video Frame Rate	Main stream: 3840 × 2160@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream: 1920 × 1080@(1 fps-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.			
Stream Capability	3 streams			
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 32kbps–8192 kbps H.265:12kbps–8192 kbps			
Day/Night	Auto (ICR)/Color/B/W			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
Scene Self-adaptation	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)			
Region of Interest (RoI)	Yes (4 areas)			
Smart Illumination	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			
Audio				
Built-in MIC	Yes			
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; external alarm; SMD; security exception			
Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			

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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			
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; P2P; RTMP			
User/Host	20 (Total bandwidth: 72 M)			
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS			
Browser	IE: IE8/9/11 Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	iOS; Android			
Certification				
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1-14			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel in: 5 mA 3V–5 VDC			
Alarm Output	1 channel out: 300 mA 12 VDC			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 5.2 W (12 VDC); 5.5 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 9.2W (DC12 V) 10.2 W (POE)			
Environment				
Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH			
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)			
Protection Grade	IP67			
Structure				
Casing	Metal			
Dimensions	110.9 mm × Φ122.0 mm (4.37" × Φ4.80")			
Net Weight	745 g (1.64 lb)			
Gross Weight	915 g (2.02 lb)			

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HDW3849H-AS-PV	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera			
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Accessories (Optional)	PFA137	Junction Box			
	PFB205W-E	Wall Mount Bracket			
	PFA109	Mount Adapter			
	PFB220C	Ceiling Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA137

Junction Box

Ceiling

Mount Bracket

PFM900-E

Integrated Mount Tester



PFB205W-E

Wall Mount Bracket



PFA109 Mount Adapter





PFM321D 12 VDC 1A Power Adapter





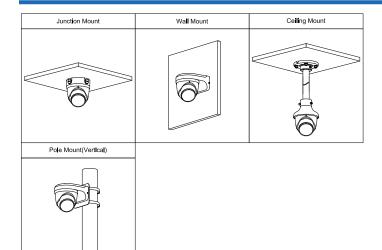








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Dimensions (mm[inch])

