

DH-IPC-HDW3849H-ZAS-PV

8 MP Smart Dual Light Active Deterrence Vari-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 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 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.

- 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 50 m and warm light distance is 40 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 Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- One-tap 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.

Wiz Sense | DH-IPC-HDW3849H-ZAS-PV

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		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		Up to 50 m (164.04 ft) (IR) Up to 40 m (131.23 ft) (warm light)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		2 (IR LED) 2 (warm light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		ф16				
Focal Length		2.7 mm-13.5 mm				
Field of View		H: 108°-34° V: 56°-19° D: 130°-39°				
Iris Type		Fixed				
Close Focus Distance		1.5 m (4.92 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	19.0 m (62.34 ft)	
	Т	257.4 m (844.49 ft)	103.0 m (337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 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				

Video				
Video Compression	$\rm H.265; H.264; H.264H; H.264B; MJPEG$ (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: 32 kbps–16384 kbps H.265: 32 kbps–16384 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)			
Image Stabilization	Electronic Image Stabilization (EIS)			
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	4 areas			
Audio				
Built-in MIC	Yes, built-in dual Mic			
Built-in speaker	Yes, built-in speaker			
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; defocus detection; external alarm; SMD; security exception			

Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.

AI SSA

Wiz Sense | DH-IPC-HDW3849H-ZAS-PV

Network

Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
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			
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); CGI			
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	SmartPSS Lite; DSS; DMSS			
Mobile Phone	iOS; Android			
Certification				
Certification	CE-LVD: EN 62368-1; 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, 5 mA 3 V–5 VDC			
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 4.8 W (12 VDC); 6 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 8.5 W (DC12 V) 11.6 W (POE)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Operating Humidity	≤95%			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	≤95%			
Protection Grade	IP67			
Structure				
Casing	Metal			
Dimensions	127.6 mm × Φ122.0 mm (5.02" × Φ4.80")			
Net Weight	885 g (2.0 lb)			

1060 g (2.3 lb)

Gross Weight

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

Accessories

Optional:



Junction Box

Ceiling

Mount Bracket



PFB205W-E

Wall Mount Bracket



PFA109 Mount Adapter





Pole Mount Bracket



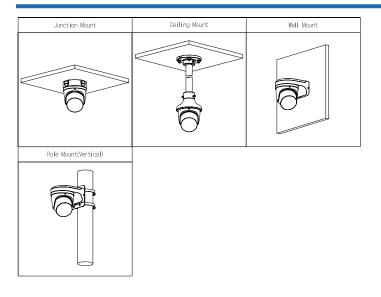
PFM900-E Integrated Mount Tester



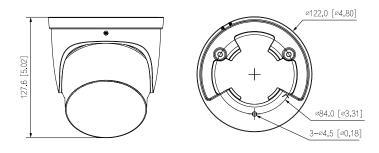
TF-P100 MicroSD Memory Card

PFM321D 12 VDC 1A Power Adapter

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Dimensions (mm[inch])



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