



DH-IPC-HFW3849T1-ZAS-PV

8MP Smart Dual Light Active Deterrence Vari-focal Bullet 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

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), AcuPick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

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.

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.

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.

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.

*The parameters and datasheets below can only be applied to 3849-PV-S5 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 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 functions support the classification and accurate detection of vehicle and human), stay detection, loitering detection; face detection (full image).
- · 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. 512 G Micro SD card; built-in dual Mic; 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.
- Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.













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.

Technical Specification						Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even	
Camera					videos			
Image Sensor		1/2.8" CMOS					Video	
Max. Resoluti	ion	3840 (H) × 21	.60 (V)				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
ROM		256 MB						AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+
RAM		2 GB					AI Coding	
Scanning Syst	tem	Progressive	ogressive					Main stream: 3840 × 2160@(1 fps-25/30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps)
Electronic Shi	utter 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)					Video Frame Rate	Third stream: 1920 × 1080@(1 fps-25/30 fps *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.
S/N Ratio		>56 dB					Stream Capability	3 streams
Illumination [Distance	Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (warm light)					Stream Capability	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
	n/Off Control	Auto;Manual 2 (IR LED)					Resolution	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 ×
Illuminator N	umber	2 (warm light)						480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°					Bit Rate Control	CBR/VBR/ABR
Lens		Rotation: 0°–360°					Video Bit Rate	H.264:3 kbps-16384 kbps H.265:3 kbps-16384 kbps
Lens Type		Motorized vari-focal					Day/Night	Auto(ICR)/Color/B/W
Lens Mount		ф16					BLC	Yes
		2.7 mm–13.5 mm					HLC	Yes
Focal Length Max Apertur	re	2.7 mm—13.5 mm F1.0					WDR	120 dB
Max. Aperture Field of View		H: 108°–34° V: 56°–19°					Scene Self-adaptation (SSA)	Yes
		D: 130°–39° Fixed					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control Close Focus D	Nistanco	1.5 m (4.92 ft)					Gain Control	Auto/Manual
Close i ocus L	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR
	W	89.9 m	36.0 m	18.0 m	9.0 m		Motion Detection	OFF/ON (4 areas, rectangular)
	VV	(294.95 ft)	(118.11 ft) 103.0 m	(59.06 ft)	(29.53 ft)		Region of Interest (RoI)	Yes (4 areas)
DORI	T	257.4 m (844.49 ft)	(337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)		. ,	, ,
Distance		etect, Observe, Recognize, Identify) is a standard system (6-4) for defining the ability of a person viewing the video to the persons or objects within a covered area. The numbers in do not reflect intelligent function distances. For intelligent					Image Stabilization	Electronic Image Stabilization (EIS)
							Smart Illumination	Yes
		ances, refer to installation and commissioning manual/					Defog	Yes 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520
Intelligence				Image Rotation	resolution and lower)			
Intrusion, tripwire (the two functions support the			Mirror	Yes				
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human), stay detection, loitering detection					Privacy Masking	4 areas
			Face detection; snapshot; snapshot optimization; optimal				Audio	
Face Detection (Full Image)		face snapshot upload; face enhancement; 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.					Built-in MIC	Yes; built-in dual Mic
SMD		SMD 4.0						Yes; built-in speaker
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.					Built-in Speaker	Max power consumption: 2 W; max sound level at 10 cm: 110 dB * Test results from laboratory

Audio Compression

G.711a; G.711Mu; PCM; G.726; G.723

videos to quickly locate targets.

of the image to suit the conditions.

AI SSA

Adopt deep learning algorithms to adjust the parameters

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Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; stay detection; loitering detection; face detection (full image scene changing; audio detection; voltage detection; defocus detection; external alarm; 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; PPPOE; SNMP; P2P	
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS	
Browser	IE: IE 9/11 Chrome Firefox	
Management Software	SmartPSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
Security	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	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 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 3–5 VDC	
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC	
Power		
Power Supply	12 VDC/PoE (802.3af);12 VDC/PoE	

Power	
Power Supply	12 VDC/PoE (802.3af);12 VDC/PoE
Power Consumption	Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.9 W (12 VDC); 10.3 W (PoE)
Environment	

Operating Temperature	−30 °C to +60 °C (−22 °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+plastic		
Product Dimensions	288.4 mm \times 94.4 mm \times 84.7 mm (11.35" \times 3.72" \times 3.33") (L \times W \times H)		
Net Weight	1.05 kg (2.31 lb)		
Gross Weight	1.35 kg (2.98 lb)		

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Light Active Deterrence Vari-focal Bullet WizSense Network Camera		
	PFA135	Junction Box		
	PFA130-E	Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA135 Junction Box

PFA130-E Junction Box

PFA152-E Pole Mount Bracket







PFM321D 12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

TF-P100 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	2	

Dimensions (mm[inch])





