

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 event
Camera						Video	videos
Image Sensor		1/2.8" CMOS					H.265; H.264; H.264H; H.264B; MJPEG (only supported
Max. Resolution		3840 (H) × 2160 (V)				Video Compression	by sub stream)
ROM		256 MB				Al Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and
RAM		2 GB				Video Frame Rate	*The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.
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)				Stream Capability	
S/N Ratio		>56 dB				Stream Capability	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Illumination Distance		Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (warm light)				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 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator C	On/Off Control	Auto;Manual				Bit Rate Control	CBR/VBR/ABR
Illuminator N	Number	2 (IR LED) 2 (warm light)					H.264:3 kbps–16384 kbps
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–90°				Video Bit Rate	H.265:3 kbps-16384 kbps
0 - 1,000		Rotation: 0°-	360°			Day/Night	Auto(ICR)/Color/B/W
Lens						BLC	Yes
Lens Type		Motorized vari-focal				HLC	Yes
Lens Mount		ф16				WDR	120 dB
Focal Length		2.7 mm-13.5 mm				Scene Self-adaptation (SSA)	Yes
Max. Aperture		F1.0				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Field of View		H: 108°-34° V: 56°-19° D: 130°-39°				Gain Control	Auto/Manual
Iris Control		Fixed				Noise Reduction	3D NR
Close Focus	Distance	1.5 m (4.92 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Yes (4 areas)
	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	9.0 m (29.53 ft)	Image Stabilization	Electronic Image Stabilization (EIS)
DORI	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)	Smart Illumination	Yes
Distance		t, Observe, Rec	ognize, Identify	r) is a standard	system	Defog	Yes
	distinguish pe this table do r	rsons or object not reflect intel	e ability of a pe s within a cove ligent function	red area. The r distances. For i	numbers in intelligent	Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	function distances, refer to installation and commissioning manual/ project design tool.					Mirror	Yes
Intelligence						Privacy Masking	4 areas
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Audio	
Face Detection (Full Image)		human), stay detection, loitering detection Face detection; snapshot; snapshot optimization; optimal 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
						Built-in Speaker	Yes; built-in speaker
						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD		SMD 4.0				Alarm	
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; stay detection; loitering detection; face detection (full image); scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					

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; RTMF 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 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 × 94.4 mm × 84.7 mm (11.35" × 3.72"× 3.33") (L × W × 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)

Dimensions (mm[inch])





