

DH-IPC-HFW3449T1-ZAS-PV

4MP 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 3449-PV-S5 series.

- 4-MP 1/2.7" 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 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 $\pm 30\%$ (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
Camera						Smart Search intelligent search, event extraction and merging to event videos	
		1/2 7" CMOS				Video	
Image Sensor		1/2.7" CMOS 2688 (H) × 1520 (V)				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
Max. Resolution		2688 (H) × 1520 (V)					Al H.265; Al H.264
ROM						Al Coding	*Includes smart codec technology, Smart H.265+ and Smart H.264+
RAM		1 GB					Main stream: 2688 × 1520@ (1–25/30 fps)
Scanning System		Progressive					Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Electronic Shutter Speed			1/3 s-1/100,0			Video Frame Rate	Third stream:1920 × 1080@ (1–25/30 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.
Min. Illumination			0 (Color, 30 IR 1.0 (B/W, 30 IF ator on)				
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)				Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048 × 1536); 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	VBR/CBR/ABR
Illuminator Number		2 (IR LED) 2 (Warm light)			Video Bit Rate	H.264:3 kbps–16384 kbps H.265:3 kbps–16384 kbps
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-3	360°			Day/Night	Auto(ICR)/Color/B/W
Lens						BLC	Yes
Lens Type		Motorized va	ri-focal			HLC	Yes
Lens Mount		ф16				WDR	120 dB
Focal Length		2.7 mm-13.5	mm			Scene Self-adaptation	Yes
Max. Aperture		F1.0				(SSA)	
Field of View		H: 103°-33° V: 54°-18°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
luis Combust		D: 124°–38°				Gain Control	Auto/Manual
Iris Control		Fixed	`			Noise Reduction	3D NR
Close Focus I		1.5 m (4.92 ft) Observe	Dogganiza	Idontifu	Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect 65.2 m	26.1 m	Recognize 13.0 m	Identify 6.5 m	Region of Interest (RoI)	Yes (4 areas)
	W	(213.91 ft)	(85.63 ft)	(42.65 ft)	(21.33 ft)	Image Stabilization	Electronic Image Stabilization (EIS)
DORI	Т	186.6 m (612.20 ft)	74.6 m (244.75 ft)	37.3 m (122.38 ft)	18.7 m (61.35 ft)	Smart Illumination	Yes
Distance		t, Observe, Reco		,		Defog	Yes
	this table do i	ersons or object not reflect intell inces, refer to ir	igent function	distances. For i	ntelligent	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
project design					,	Mirror	Yes
Intelligence				Privacy Masking	4 areas		
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human), stay detection, loitering detection				Audio	
Face Detection (Full Image)				napshot optimiz		Built-in MIC	Yes, built-in dual Mic
		The state of the s		enhancement; f o; snapshot str	•	Built-in Speaker	Yes, built-in speaker
		(real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.				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
ΔΙ SSΔ		Adopt deep learning algorithms to adjust the parameters					

defocus detection; external alarm; SMD; security

exception

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

AI SSA

Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMI 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)	
Power Consumption	Basic: 2.8 W (12 VDC); 3.6 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 7.9 W (12 VDC); 9.2 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"× 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				
4MP Camera	DH-IPC-HFW3449T1-ZAS-PV	4MP 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







TF-P100 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	050	

Dimensions (mm[inch])





