

DH-IPC-HFW3449T1-AS-PV

4MP Smart Dual Light Active Deterrence Fixed-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

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.

* The parameters and datasheets below can only be applied to 3449-PV-S4 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 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 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.

AI H.265; AI H.264

AI Coding

Technical Specification						Video Frame Rate	Main stream: 2688 × 1520@(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps)
Camera							
Image Sensor		1/2.7" CMOS				video frame Rate	Third stream: $1920 \times 1080@(1 \text{ fps}-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding
Max. Resolution		2688 (H) × 15	20 (V)			Stream Capability	3 streams
ROM		128 MB				Stream Capability	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048
RAM		512 MB				Resolution	× 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s			H.264: 32kbps-8192 kbps
Min. Illumination			0 (Color, 30 IR 1.0 (B/W, 30 IF ator on)			Video Bit Rate Day/Night	H.265: 12kbps–8192 kbps Auto (ICR)/Color/B/W
S/N Ratio		> 56 dB	,				
		Up to 30 m (98.43 ft) (IR)				BLC	Yes
Illumination Distance		Up to 30 m (98.43 ft) (warm light)				HLC	Yes
Illuminator On/Off Control		Auto/Manual				WDR	120 dB
Illuminator Number		2 (IR LED) 2 (warm light)			Scene Self-adaptation	Yes
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
,		Rotation: 0°-	360°			Gain Control	Auto; manual
Lens						Noise Reduction	3D NR
Lens Type		Fixed-focal				Motion Detection	OFF/ON (4 areas)
Mount Type		M12				Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 r	nm			Smart Illumination	Yes
Field of View		2.8 mm: H: 101°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 44°; D: 96°				Defog	Yes
Iris Type		Fixed				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)				Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	8 areas
DORI	2.8 mm	66.0 m	26.4 m	13.2 m	6.6 m	Audio	
Distance		(216.54 ft) 78.0 m	(86.61 ft) 31.2 m	(43.31 ft) 15.6 m	(21.65 ft) 7.8 m	Built-in Mic	Yes, built-in dual Mic
	3.6 mm	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)	Built-in speaker	Yes, built-in speaker
Intelligen	ce					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimeter Protection)			usion (support ection of vehicle	the classification e and human)	on and	Alarm	
SMD 4.0		Less false alar	m, longer dete	ction distance			No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Network	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				Network	RJ-45 (10/100 Base-T)
Video		or the image to suit the conditions.				SDK and API	Yes
Video Compression		H.265; H.264 by the sub str		4B; MJPEG (onl	y supported	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
Smart Codec		Smart H.265+	; Smart H.264+	-			execution; trusted upgrade

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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	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: 5mA 3V–5 VDC				
Alarm Output	1 channel out: 300mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 3.3 W (12 VDC); 4.4 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 6.8 W (12 VDC); 8.2 W (PoE)				
Environment					
Operating Conditions	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)/Less than 95% RH				
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)				
Protection Grade	IP67				
Structure					
Casing	Metal + plastic				
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)				
Net Weight	1.0 kg (2.20 lb)				
Gross Weight	1.23 kg (2.71 lb)				

Ordering Information								
Туре	Model	Description						
4MP	DH-IPC-HFW3449T1-AS-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera						
Camera	IPC-HFW3449T1-AS-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera						
	PFA135	Junction Box						
	PFA130-E	Water-proof 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 Water-proof Junction Box

PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





