

DH-IPC-HFW3449T1-AS-PV

4MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera





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 Illuminators

Dahua Smart Dual Illuminators 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; buit-in dual MICs; 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.
- · One-click 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								Main stream: 2688 × 1520@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1
Camera							Video Frame Rate	Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream:1920 × 1080@(1 fps-30 fps)
Image Sensor		1/2.7" CMOS						*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) × 1520 (V)					Characan Canability	capacity
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					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 ×
Scanning System		Progressive					20.2	480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 32kbps–8192 kbps H.265: 12kbps–8192 kbps
S/N Patio	C/N Datia		4101 011)				Day/Night	Auto (ICR)/Color/B/W
3/ N Natio	S/N Ratio		f+\ /ID\				BLC	Yes
Illumination	Distance	30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)					HLC	Yes
Illuminator (On/Off Control	Auto/Manual					WDR	120 dB
Illuminator Number		2 (IR LED)					Scene Self-adaptation	Yes
Pan/Tilt/Potation Pango		2 (warm light) Pan: 0°–360° Tilt: 0°–90°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rotation Range		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 mm					Smart Illumination	Yes
Field of View	Field of View		01°; V: 53°; D: 1 2°; V: 44°; D: 96				Defog	Yes
Iris Type		Fixed					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ 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	2.6	(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
	3.6 mm	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)		Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Intelligen	ce						Alarm	
IVS (Perimet	er Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
SMD 4.0		Less false alarm, longer detection distance						
Smart Searc	Smart Search		er with Smart N arch, event extr				Network	changing; audio detection; voltage detection; external alarm; SMD; security exception
		videos						DL 45 /40/400 Dave Th
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Network	RJ-45 (10/100 Base-T)
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					SDK and API Cyber Security	Yes
Video		H.265; H.264; H.264H; H.264B; MJPEG (only supported						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
	Video Compression Smart Codec		ream) +; Smart H.264+	F			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

Wiz Sense | DH-IPC-HFW3449T1-AS-PV

ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P; RTMP	
20 (Total bandwidth: 72 M)	
FTP; SFTP; Micro SD card (support max. 256 G); NAS	
IE: IE8/9/11 Chrome Firefox	
Smart PSS; DSS; DMSS	
iOS; Android	
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;	
1 channel (RCA port)	
1 channel (RCA port)	
1 channel in: 5mA 3V–5 VDC	
1 channel out: 300mA 12 VDC	
12 VDC/PoE (802.3af)	
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)	
$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)/Less than 95% RH	
-40 °C to +60 °C (-40 °F to +140 °F)	
IP67	
Metal + plastic	
288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)	
1.0 kg (2.20 lb)	
1.23 kg (2.71 lb)	

Ordering Information						
Туре	Model	Description				
4MP	DH-IPC-HFW3449T1-AS-PV	4MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera				
Camera	IPC-HFW3449T1-AS-PV	4MP Smart Dual Illumination 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])





