

# 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**

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. 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.

#### 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 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 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.

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## **Technical Specification**

Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		256 MB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE); 0.0003 lux@F1.0 (B/W, 30 IRE); 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		2 (IR LED); 2 (Warm light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length	I	2.8 mm;3.6 mm			
Max. Apertu	re	F1.0			
Field of View	1	2.8 mm: H: 101°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 44°; D: 96°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)
	3.6 mm	78.0 m (255.91 ft)	22.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent				

for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

### Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human), stay detection, loitering detection	
Face Detection (Full Image)	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.	
SMD	SMD 4.0	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	

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.		
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)		
AI Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+		
Video Frame Rate	Main stream: 2688 × 1520@ (1 fps-25/30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) 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.		
Stream Capability	3 streams		
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)		
Bit Rate Control	VBR; CBR; ABR		
Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 $\times$ 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
LDC	Yes		
Audio			
Built-in MIC	Yes, built-in dual Mic		
Built-in Speaker	Yes, built-in speaker		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		

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; 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: IE11 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 FCC: 47 CFR FCC Part 15, Subpart B	
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: 3.7 W (12 VDC); 4.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on); 8.8 W (PoE)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Protection	IP67	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
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	1.0 kg (2.20 lb)		
Gross Weight	1.23 kg (2.71 lb)		

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

## Accessories

#### Optional:







PFA135 Junction Box

PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket



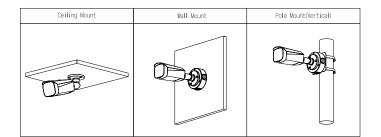




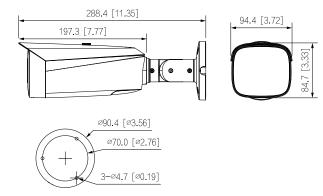
PFM321D 12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

TF-P100 Integrated Mount Tester



## Dimensions (mm[inch])



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