

# DH-IPC-HFW3549T1-ZAS-PV

5MP Smart Dual Light Active Deterrence Vari-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 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps and supports 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 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 works normal 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.

by the sub stream)

Technical Specification						Smart Codec	Smart H.265+; Smart H.264+
Camera						Al Coding	AI H.265; AI H.264
Image Sensor		1/2.7" CMOS				Video Frame Rate	Main stream: $2960 \times 1668@ (1-20 \text{ fps})/2688 \times 1520 @ (1-30 \text{ fps})$ Sub stream: $704 \times 576@ (1-25 \text{ fps})/704 \times 480@ (1-30 \text{ fps})$ Third stream: $1920 \times 1080@ (1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Resolution		2960 (H) × 1668 (V)					
ROM		128 MB					
RAM		512 MB					
Scanning System		Progressive				Stream Capability	3 streams
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				Resolution	
S/N Ratio	S/N Patic		,			Bit Rate Control	CBR/VBR
S/N Ratio		>56 dB 50 m (164.04 ft) (IR)				Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Illumination D	Illumination Distance		ft) (warm light	:)		Day/Night	Auto (ICR)/Color/B/W
Illuminator Or	Illuminator On/Off Control					BLC	Yes
Illuminator Nu	umber	2 (IR LED) 2 (warm light)				HLC	Yes
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				WDR	120 dB
						Scene Self-adaptation	Yes
Lens						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized vari-focal				Gain Control	Auto; manual
Mount Type	Mount Type					Noise Reduction	3D NR
Focal Length		2.7 mm-13.5 mm				Motion Detection	OFF/ON (4 areas)
Max. Aperture		F1.0				Region of Interest (RoI)	Yes (4 areas)
Field of View		Horizontal: 113°–36° Vertical: 57°–20°				Image Stabilization	Electronic Image Stabilization (EIS)
luis Tura e		Diagonal: 137°–40° Fixed				Smart Illumination	Yes
Iris Type						Defog	Yes
Close Focus D	Lens	1.5 m (4.92 ft)  Detect Observe Recognize Identify				Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $2688\times1520$ resolution and lower)
DORI	W	65.2 m	26.1 m	13.0 m	6.5 m	Mirror	Yes
Distance	VV	(223.91 ft)	(85.63 ft)	(42.65 ft)	(21.33 ft)	Privacy Masking	4 areas
	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)	Audio	
Professional, intelligent					Built-in Mic	Yes, built-in dual Mic	
IVS (Perimeter	r Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Built-in speaker	Yes, built-in speaker
SMD 4.0		Less false alarm, longer detection distance				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Alarm	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; 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.				Network	
Video						Network	RJ-45 (10/100 Base-T)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				SDK and API	Yes

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 execution; trusted upgrade			
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			
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. (H.265+main stream/IR intensity+warm light on): 7.4 W (12 VDC); 8.7 W (PoE)			
Environment				
Operating Conditions	−30 °C to +60 °C (−22 °F to +140 °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	1.05 kg (2.31 lb)			

1.35 kg (2.98 lb)

Gross Weight

Ordering Information							
Туре	Model	Description					
5MP	DH-IPC-HFW3549T1-ZAS-PV	5MP Smart Dual LightActive Deterrence Vari-focal Bullet WizSense Network Camera					
Camera	IPC-HFW3549T1-ZAS-PV	5MP Smart Dual LightActive Deterrence Vari-focal Bullet WizSense Network Camera					
	PFA135	Junction Box					
	PFA130-E	Junction Box					
Accessories	PFA152-E	Pole Mount Backet					
(Optional)	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	TLC SD Card					

## **Accessories**

## Optional:







PFA135 Junction Box

PFA130-E Junction Box

PFA152-E Pole Mount Bracket



12 VDC 1A Power Adapter









TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])





