

# DH-IPC-HFW3549T1-ZAS-PV

5MP Smart Dual Illumination 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 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**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960  $\times$  1668) @20 fps and supports 4 MP (2688  $\times$  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; 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 3.0.
- · 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 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.

Technical Specification								Main stream: 2960 × 1668@ (1–20 fps)/2688 × 1520 @ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps)
Camera								
Image Sensor		1/2.7" CMOS					Video Frame Rate	Third stream: 1920 × 1080@ (1–30 fps) *The values above are the max. frame rates of each
Max. Resolution		2960 (H) × 1668 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					Resolution	5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p
Scanning System		Progressive						(1280 × 720); D1 (704 × 576/704 × 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: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
,		50 m (164.04 ft) (IR)					BLC	Yes
	Illumination Distance		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
Pan/Tilt/Rotation Range		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		Motorized vari-focal					Motion Detection	OFF/ON (4 areas)
Mount Type		ф16					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.7 mm-13.5 mm					Image Stabilization	Electronic Image Stabilization (EIS)
Max. Apertu	re	F1.0					Smart Illumination	Yes
Field of View		Horizontal: 113°–36° Vertical: 57°–20° Diagonal: 137°–40°					Defog	Yes 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520
Iris Type		Fixed					Image Rotation	resolution and lower)
Close Focus Distance		1.5 m (4.92 ft)					Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
DORI	W	65.2 m	26.1 m	13.0 m	6.5 m		Audio	
Distance	-	(223.91 ft) 186.6 m	(85.63 ft) 74.6 m	(42.65 ft) 37.3 m	(21.33 ft) 18.7 m		Built-in MIC	Yes
	Т	(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)		Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Profession	nal, intellige						Alarm	
IVS (Perimeter 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 3.0		Less false alarm, longer detection distance						changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Network	decease, occurrence and second occupation
Video							Network	RJ-45 (10/100 Base-T)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported					SDK and API	Yes
Smart Codec		by the sub stream) Smart H.265+; Smart H.264+					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
AI Coding		AI H.265; AI H.264						

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; P2P; Milestone				
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	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ 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)				
Gross Weight	1.35 kg (2.98 lb)				

Ordering Information						
Туре	Model	Description				
5MP	DH-IPC-HFW3549T1-ZAS-PV	5MP Smart Dual Illumination Active Deterrence Vari-focal Bullet WizSense Network Camera				
Camera	IPC-HFW3549T1-ZAS-PV	5MP Smart Dual Illumination Active 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







PFM321D 12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])





