

# DH-IPC-HFW3549T1-AS-PV-S3

5MP 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**

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 (2592  $\times$  1944)@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 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 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.



## Wiz Sense | DH-IPC-HFW3549T1-AS-PV-S3

Technical	Specification	on					Main stream: 2592 × 1944@(1 fps-20 fps)/2688 × 1520
Camera							@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1
Image Sensor		1/2.7" CMOS				Video Frame Rate	fps=30 fps) Third stream: 1920 × 1080@(1 fps=30 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		2592 (H) × 1944 (V)					
ROM		128 MB				Stream Capability	3 streams
RAM		512 MB				Decelution	5M (2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive				Resolution	
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–20480 kbps H.265: 3 kbps–20480 kbps
S/N Ratio		> 56 dB				Day/Night	Auto (ICR)/Color/B/W
	Distance	30 m (98.43 f	t) (IR)			BLC	Yes
Illumination	Distance	30 m (98.43 f	t) (warm light)			HLC	Yes
Illuminator (	Illuminator On/Off Control					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
Long		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	1	2.8 mm; 3.6 mm				Smart Illumination	Yes
Field of View	V	2.8 mm: Horizontal: 97°× Vertical: 70°× Diagonal: 128° 3.6 mm: Horizontal: 78°× Vertical: 58°× Diagonal: 102°				Defog	Yes
Iris Type		Fixed				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ 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 (216.54 ft)	26.4 m ( 86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)	Audio	
Distance	3.6 mm	78.0 m	31.2 m	15.6 m	7.8 m	Built-in MIC	Yes
Drafassia	nal, intellige	(255.91 ft)	( 102.36 ft)	(51.18 ft	(25.59 ft)	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
	rial, intellige er Protection)	Tripwire; intru	usion (support		on and	Alarm	
	,	accurate detection of vehicle and human)					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
SMD 3.0 Intelligent Search		Less false alarm, longer detection distance  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Alarm Event	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
Video		videos.				Network	
		H.265; H.264; H.264H; H.264B; MJPEG (only supported				Network	RJ-45 (10/100 Base-T)
Video Compression		by the sub stream)				SDK and API	Yes
Smart Codec		Smart H.265+; Smart H.264+					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
Al Coding		AI H.265; AI H.264				Cyber Security	
							execution; trusted upgrade



## Wiz Sense | DH-IPC-HFW3549T1-AS-PV-S3

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: 2.4 W (12 VDC); 3.1 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 9.7 W (PoE)	
Environment		
Operating Conditions	−40 °C to +60 °C (−40 °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 (11.4" × 3.7" × 3.3") (L × W × H)	
Net Weight	1.0 kg (2.20 lb)	
Gross Weight	1.23 kg (2.71 lb)	

Ordering Information					
Type	Model	Description			
5MP Camera	DH-IPC-HFW3549T1-AS- PV-S3	5MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera			
	IPC-HFW3549T1-AS-PV-S3	5MP Smart Dual Illumination Active Deterrence Fixed-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



Integrated Mount Tester





TLC SD Card

Pole Mount(Vertical)

Ceiling Mount	Wall Mount	Pole Mount(Vertical)	



## Dimensions (mm[inch])





