



DH-IPC-HFW3549T1-AS-PV

5MP Full-color 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. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports 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.

- · 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 1520) @25/30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in warm illuminator, and the max. illumination distance: 40 m
- · ROI, SMART 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 detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- · Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing.
- · Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker
- · 12V DC/PoE power supply
- · IP67 protection
- · SMD Plus
- · Red and blue flashlight alarm













Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						Stream Capability	3 streams
Camera							5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 2M (2304 × 1306); 10806 (1030 × 1080); 1.3M
Image Sensor		1/2.7"5Megapixel progressive CMOS				Resolution	1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)
Max. Resolution		2592 (H) × 1944 (V)				Bit Rate Control	CBR/VBR
ROM	ROM					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
RAM		512 MB				Day/Night	Color/B/W
Scanning Syste	Scanning System					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				HLC	Yes
Min. Illuminat	ion	0.003 Lux @ F1.0				WDR	120 dB
S/N Ratio		>56 dB				Scene Self-adaptation	Yes
Illumination D	istance	40 m (131.2 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illuminator Or	n/Off Control	Auto/Manual					custom
Illuminator Nu	ımber	2 (Warm light)				Gain Control	Auto/Manual
Pan/Tilt/Rota	tion Range	Pan: 0°–360° Tilt: 0°–90°				Noise Reduction	3D NR
r any mry notal	non nange	Rotation: 0°	'–360°			Motion Detection	OFF/ON (4 areas)
Lens						Region of Interest (RoI)	Yes (4 areas)
Lens Type		Fixed-focal				Smart Illumination	Yes
Mount Type		M12				Image Rotation	0°/90°/180°/270° (Support with 2592×1944 resolution and lower)
Focal Length		2.8 mm; 3.6 mm; 6 mm				Mirror	Yes
Max. Aperture	2	F1.0				Privacy Masking	4 areas
Field of View		2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 77° × Vertical 56° × Diagonal 101°				Audio	
Iris Type		6 mm: Horizontal 53° × Vertical 40° × Diagonal 66° Fixed				Built-in MIC	Yes
		2.8 mm: 1.2 m (3.9 ft)				Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
Close Focus D	istance	3.6 mm: 2.1 m (6.9 ft) 6 mm: 4.5 m (14.8 ft)				Alarm	No SD card: SD card full: SD card arror: network
	Lens	Detect	Observe	Recognize	Identify	Alarm Event detection; video tampering; tripwire; intrusion changing; audio detection; voltage detection; alarm; SMD; safety exception; light alarm; sou	disconnection; IP conflict; illegal access; motion
DORI	2.8 mm	67.4 m (221.1 ft)	27 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 ft)		changing; audio detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)
Distance	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		
	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)	Network	RJ-45 (10/100 Base-T)
Professional, intelligent		,,	,	,	, ,	SDK and API	Yes
	IVS (Perimeter Protection)		trusion (suppo tection of vehi			Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA;
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Interoperability	PPPoE; 802.1x; SNMP ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Video						User/Host	20 (Total bandwidth: 80 M)
Video Compression		$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (only supported by the sub stream)				Storage	FTP; SFTP; Micro SD card (support max. 256 G); Dahua Colud; NAS
Smart Codec		Smart H.265+/Smart H.264+				Browser	IE: IE8 and later
Video Frame Rate		Main stream: 2592 × 1944 @1-20 fps/ 2688 × 1520 @1-25/30 fps Substream: 704 × 576 @1 25 fps/704 × 480 @ 1 20 fps					Chrome Firefox Safari: Safari 12 and later
		Sub stream: 704 × 576 @1-25 fps/704 × 480 @ 1-20fps Third stream: 1920 × 1080 @1-25/30 fps				Management Software	Smart PSS; DSS; DMSS

Wiz Sense 1	DH-IPC-HFW3549T1-AS-PV
Mobile Phone	IOS; Android
Certification	
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 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: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 2W (12V DC); 2.6W (PoE) Max. power consumption (H.265 + warm light + IVS + sound alarm + red and blue lights flash): 7.5W (12V DC); 8.8W (PoE)
Environment	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH

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 (2.2 lb)
Gross Weight	1.23 kg (2.7 lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW3549T1P- AS-PV	5MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, PAL			
5MP Camera	DH-IPC- HFW3549T1N- AS-PV	5MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, NTSC			
	IPC-HFW3549T1P- AS-PV	5MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, PAL			
	IPC-HFW3549T1N- AS-PV	5MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, NTSC			
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount			
Accessories	PFM321D	12V DC 1A Power Adapter			
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:







PFA152-E Pole Mount



12V DC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wa ll Mount	Pole Mount(Vertical)

Dimensions (mm/inch)

