

DH-IPC-HFW3849T1-AS-PV

8MP 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.

- · 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- \cdot Outputs max. 8MP (3840 × 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 × 2160) @25/30 fps (with AI function disabled)
- · H.265 codec, high compression rate, low bit rate
- \cdot Built-in warm illuminator, and the max. illumination distance: 30 m $\,$
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various band width and storage environments
- \cdot Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Tripwire, intrusion (the three functions 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, net work 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













Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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				Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280			
Camera								
Image Sensor		1/2.8"8Megapixel progressive CMOS					× 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Max. Resolution		3840 (H) × 2160 (V)			Bit Rate Control	CBR/VBR		
ROM		128 MB				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
RAM		512 MB				Day/Night	Color/B/W	
Scanning Syste	m	Progressive					BLC	Yes
Electronic Shut	ter Speed	Auto/Manual 1/3 s–1/100,000 s				HLC	Yes	
Min. Illumination	on	0.007 Lux@F1.4				WDR	120 dB	
S/N Ratio		> 56 dB					Scene Self-adaptation (SSA)	Yes
Illumination Di	stance	30 m (98.4 ft	t)				White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illuminator On,	Off Control	Auto/Manua	il					custom
Illuminator Nui	mber	2 (Warm ligh	nt)				Gain Control	Auto/Manual
Pan/Tilt/Rotati	on Range	Pan: 0°–360° Tilt: 0°–90°				Noise Reduction	3D NR	
Tany Tiny Notati	on 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 90°/270° with 1920 × 1080 resolution and lower)		
Focal Length		2.8 mm; 3.6 mm			Mirror	Yes		
Field of View		2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127° 3.6 mm: Horizontal 89° × Vertical 46° × Diagonal 102°			Privacy Masking	4 areas		
Iris Type		Fixed				Audio		
Close Focus Dis	stance	2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2.2 m (7.2 ft)				Built-in MIC	Yes	
	Lens	Detect	Observe	Recognize	Identify		Audio Compression	PCM, G.711a, G.711Mu, G726
DORI	W	87.7 m	35.1 m	17.5 m	8.8 m		Alarm	
Distance	Т	(287.7ft) 110.3 m (361.9 ft)	(115.2 ft) 44.1 m (144.7 ft)	(57.4 ft) 22.1 m (72.5 ft)	(28.9 ft) 11 .0 m (36.1 ft)			No SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Professional	, intelligent					Alarm Event	detection; video tampering; tripwire; intrusion; audio detection; voltage detection; external alarm; SMD;	
IVS (Perimeter	Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)		
Intelligent Co.		Work together with Smart NVR to perform refine				Network		
Intelligent Sear	cn	intelligent search, event extraction and merging to event videos.			Network	RJ-45 (10/100 Base-T)		
Video					SDK and API	Yes		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				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;	
Smart Codec		Smart H.265+/Smart H.264+				PPPoE; SNMP		
Video Frame Rate		Main stream: $3840 \times 2160 \ @(1-20 \ fps \ by \ default)$ $3840 \times 2160 \ @(1-25/30 \ fps \ with Al \ function \ disabled)$ sub stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$ third stream:				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	
			@(1-25/30 fp	os)			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Stream Capability		3 streams					User/Host	20 (Total bandwidth: 72 M)

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Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

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Certification

	CE-LVD: EN62368-1
Certification	CE-EMC: Electromagnetic Compatibility Directive
Certification	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: 3.2W (12V DC); 4.2W (PoE) Max. power consumption (WDR + H.265 + red and blue lights intensity + warm light + max. sound alarm): 8.2W (12V DC); 9.7W (PoE)	

Environment

Operating Conditions	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ 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 \times 94.4 mm \times 84.7 mm (11.4" \times 3.7" \times 3.3") (L \times W \times 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- HFW3849T1P-AS-PV	8MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, PAL		
OMD Come are	IPC-HFW3849T1P- AS-PV	8MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, PAL		
8MP Camera	DH-IPC- HFW3849T1N-AS-PV	8MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, NTSC		
	IPC-HFW3849T1N- AS-PV	8MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera, NTSC		
Accessories (optional)	PFA130-E	Junction Box		
	PFA152-E	Pole Mount		

PFM321D	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	

Accessories

Optional:







PFA152-E Pole Mount



PFM321D 12V DC 1A Power Adapter



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



PFM900-E Integrated Mount



PFM114 TLC SD Card

Celling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm/inch)

