

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
- · Outputs max. 8MP (3840×2160) @20 fps (Al function enabled by default)and supports 8MP (3840×2160) @25/30 fps (with Al 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
- · 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
- \cdot 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					8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×		
Camera			Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280			
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	tter 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 f	t)				Auto/natural/street lamp/outdoor/manual/regional
Illuminator On,	/Off Control	Auto/Manua	ıl			White Balance	custom
Illuminator Nui	mber	2 (Warm ligh	nt)			Gain Control	Auto/Manual
Pan/Tilt/Rotati	ion Range	Pan: 0°-360° Tilt: 0°-90°				Noise Reduction	3D NR
r any rine, Notaci	ion numbe	Rotation: 0°–360°				Motion Detection	OFF/ON (4 areas)
Lens	Lens				Region of Interest (RoI)	Yes (4 areas)	
Lens Type		Fixed-focal		Smart Illumination	Yes		
Mount Type		M12		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ 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	VV	(287.7ft)	(115.2 ft)	(57.4 ft)	(28.9 ft)		No SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio
	Т	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11 .0 m (36.1 ft)	Alarm Event	
Professional	, intelligent					, warm Event	detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in
IVS (Perimeter	Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			sounds and custom voices importing)		
:		Work together with Smart NVR to perform refine				Network	
Intelligent Sear	Intelligent Search		intelligent search, event extraction and merging to event videos.		Network	RJ-45 (10/100 Base-T)	
Video				SDK and API	Yes		
Video Compre	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Smart Codec		Smart H.265+/Smart H.264+				Protocol	
Video Frame Rate		Main stream: $3840 \times 2160 @ (1-20 \text{ fps by default})$ $3840 \times 2160 @ (1-25/30 \text{ fps with AI function disabled})$ sub stream: $704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ 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)

Wiz Sense | DH-IPC-HFW3849T1-AS-PV

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

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	

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°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 \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		
ONAD Company	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

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm/inch)

