

DH-IPC-HFW3849T1-AS-PV

8MP Full-color Active Deterrence Fixed-focal Bullet WizSense Network Camera



Wiz Sense

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.

- \cdot 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- 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
- 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
- · 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.



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Technical Specification

Camera

Califera	
Image Sensor	1/2.8" 8Megapixel progressive CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.007 Lux@F1.4
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Field of View		2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127° 3.6 mm: Horizontal 89° × Vertical 46° × Diagonal 102°			0
Iris Type		Fixed			
Close Focus Di	stance	2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2.2 m (7.2 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	87.7 m (287.7ft)	35.1 m (115.2 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)
	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)

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/Smart H.264+
Video Frame Rate	Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps with AI function disabled) sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)
Stream Capability	3 streams

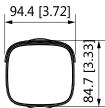
Bit Rate ControlCBR/VBRVideo Bit RateH.264: 3 kbps8192 kbps H.265: 3 kbps8192 kbpsDav/NightColor/B/WBLCVesHLCVesWDR120 dBScene Self-adaptation (SSA)VesWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas)Region of Interest (Rol)Yes (4 areas)MirrorYesImage RotationYesMulti- ManualAuto/ManualMirrorYesMulti- RumonYes (2 areas)Multi- RumonYes (2 areas)Multi- RumonYes (2 areas)Audio CompressionPCM, G.711a, G.711Mu, G726AutorYesAudio CompressionPCM, G.711a, G.711Mu, G726Alarm EventNo SD card; SD card full; SD card error; service fire warring (supported by Dahaa card); network disconnetoring. Peroficit juligal access; motion; subo; safety exception; julty alarm; sound alarm (11 built-in safety exception; ju	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 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video bit NateH.265.3 kbps-8192 kbpsDay/NightColor/B/WBLCYesHLCYesWDR120 dBScene SelF-adaptation (SSA)YesWhite BalanceCuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/natural/street lamp/outdoor/manual/regional customMotion DetectionOFF/ON (4 areas)Motion DetectionVesImage RotationYesImage RotationVesPrivacy Masking4 areasAudio CompressionPCM, G.711a, G.711Mu, G726Audio CompressionPCM, G.711a, G.711Mu, G726Audio CompressionNo SD card; SD card full; SD card error; service life waring (supported by Dahua card); network disconnection; Wes (1990 y Dahua card); network disconnection; Wes (1990 y Dahua card); network disconnection; Worlage detection, external alarn; SMD; sardt sarty sudo detection, voltage detection, external alarn; SMD; sardt safty exception; light alarn; sound alarn (11 built-in sounds and custom volcas importing)NetworkRI-45 (10/100 Base-T)NetworkYesProtocolVesProtocolVesProtocolVesProtocolVesSinger SecurityVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVesProtocolVes <t< td=""><td>Bit Rate Control</td><td>CBR/VBR</td></t<>	Bit Rate Control	CBR/VBR
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Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPPP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA ; PPPoE; SNMP 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 Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	Network	RJ-45 (10/100 Base-T)
ProtocolRTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA ; PPPOE; SNMPCyber SecurityVideo 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 upgradeInteroperabilityONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	SDK and API	Yes
Cyber Securityencryption; 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 upgradeInteroperabilityONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA ;
Genetec; P2P	Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot;
User/Host 20 (Total bandwidth: 72 M)	Interoperability	
	User/Host	20 (Total bandwidth: 72 M)

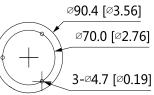
Wiz Sense | DH-IPC-HFW3849T1-AS-PV

Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		PFM321D	12V DC 1A Pow	12V DC 1A Power Adapter	
Browser	IE: IE8; IE9; IE11 Chrome Firefox		LR1002-1ET/1EC	Single-port Lon Extender	g Reach Ethernet over Coax	
Management Software	Smart PSS; DSS; DMSS		РҒМ900-Е		Integrated Mount Tester	
Mobile Phone	IOS; Android		PFM114	TLC SD Card		
Certification						
		Accessories				
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	Optional:				
Port					ß	
Audio Input	1 channel (RCA port)				12	
Audio Output	1 channel (RCA port)					
Alarm Input	1 channel in: 5mA 3V–5V DC	PFA130-E	P	PFA152-E	PFM321D 12V DC 1A Power Adapter	
Alarm Output	1 channel out: 300mA 12V DC	Junction Bo	ex Po	ole Mount		
Power						
Power Supply	12V DC/PoE (802.3af)	1 ið	P 1	alhua		
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)				<u>ອີກັນຄ</u> 128∰≌ິ່າ	
Environment		LR1002-1ET/1 Single-port Lo	ong Integ	FM900-E rated Mount	PFM114 TLC SD Card	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH	Reach Ethernet Coax Extend		Tester		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)					
Protection Grade	IP67	Celling Mo	unt Ju	unction Mount	Pole Mount(Vertical)	
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)			200		
Net Weight	1.0 kg (2.2 lb)					
Gross Weight	1.23 kg (2.7 lb)			~		

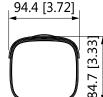
Dimensions (mm/inch)

288.4 [11.35]	c
197.3 [7.77]	-





Ø90.4 [Ø3.56]	



Rev 001.001

Ordering Information

Part Number

HFW3849T1P-AS-PV

IPC-HFW3849T1P-

HFW3849T1N-AS-PV

IPC-HFW3849T1N-

DH-IPC-

AS-PV

DH-IPC-

AS-PV

PFA130-E

PFA152-E

Туре

8MP Camera

Accessories (optional)

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Description

Junction Box

Pole Mount

8MP Full-color Active Deterrence Fixed-focal

Bullet WizSense Network Camera, PAL

Bullet WizSense Network Camera, PAL

Bullet WizSense Network Camera, NTSC

Bullet WizSense Network Camera, NTSC

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