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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)
- \cdot 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	
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	ens 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°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2.2 m (7.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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 Al 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/WBLCVesHLCVesWDRI20 dBScene Self-adaptation (SA)Auto/haural/street lamp/outdoor/manual/regional castomMitte BalanceAuto/ManualMotion DetectionDNRMotion DetectionOFF/ON (4 areas)Motion DetectionVes (4 areas)Image RotationYes (4 areas)MirrorVes (3 areas)Mution CompressionPCM/SUP/SUP/SUP/SUP/SUP/SUP/SUP/SUP/SUP/SUP	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)
Niceo Bit NateH.265: 3 kbps-8192 kbpsDay/NightColor/B/WBLCYesHLCVesWDR120 dBScene Self-adaptation (SSA)YesWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise ReductionSF/ON (4 areas)Motion DetectionOFF/ON (4 areas)Image RotationYesImage RotationVes (4 areas)MirrorVesAudio CompressionOff/ON/IZOP (Support 907/270* with 1920 × 1080 resolution and lower)MirrorVesAudio CompressionPCM, G.711a, G.711Mu, G726Audio CompressionNo SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnetrom; Picoffict; lifegal access; motion odetection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm; SDMD; safety exception; light alarm; sound alarm; SDMD; 	Bit Rate Control	CBR/VBR
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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)

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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
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: 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 × 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)

PFM321D	12V DC 1A Power Adapter
LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
РҒМ900-Е	Integrated Mount Tester
PFM114	TLC SD Card

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

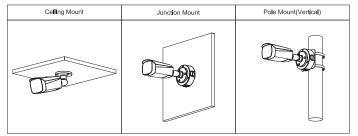
РFM900-Е

Integrated Mount

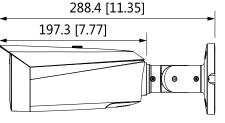
Tester

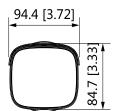


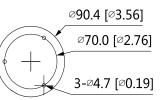
PFM114 TLC SD Card



Dimensions (mm/inch)







8MP Camera	AS-PV	Bullet WizSense Network Camera, PAL
	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

Description

8MP Full-color Active Deterrence Fixed-focal

8MP Full-color Active Deterrence Fixed-focal

Bullet WizSense Network Camera, PAL

Ordering Information

Part Number

IPC-HFW3849T1P-

DH-IPC-HFW3849T1P-AS-PV

Туре

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