

DH-IPC-HFW3849T1-AS-PV-PRO

8MP Smart Dual Light 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

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the 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.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 8 MP (3840 ×2160)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 50 m and the max. warm light distance is 50 m
- ROI, SMART H.264+/H.265+, AI 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 monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card; built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.



One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) 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		1/1.8" CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		256 MB			
RAM		2 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0008 Lux@F1.0 (Color, 30IRE) 0.0004 Lux@F1.0 (B/W, 30IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 50 m (164.04 ft) (IR) Up to 50 m (164.04 ft) (Warm light)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		4 (Multi-core (IR + warm) light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M16			
Focal Length		2.8 mm;3.6 mm			
Max. Aperture		F1.0			
Field of View		2.8 mm: H: 109°; V: 59°; D: 131° 3.6 mm: H: 93; V: 50°; D: 111°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 2.1 m (6.89 ft) 3.6 mm: 4.4 m (14.44 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	82.0 m (269.03 ft)	32.8 m (107.64 ft)	16.4 m (53.81 ft)	8.2 m (26.90 ft)
	3.6 mm	100.0 m (328.08 ft)	40.2 m (131.23 ft)	20.0 m (65.62 ft)	10.0 m (32.81 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or				

for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	
SMD	SMD 4.0	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.	

AISSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					
Video						
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)					
Smart Codec	Smart H.265+; Smart H.264+					
AI Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)					
Video Frame Rate	Main stream: 3840 × 2160@(1 fps-25/30 fps) Sub stream: 1920 × 1080@(1 fps-25/30 fps) Third stream: 1920 × 1080@(1 fps-25/30 fps) *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.					
Stream Capability	3 streams					
Resolution	8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					
Bit Rate Control	VBR; CBR; ABR					
Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps					
Day/Night	Auto(ICR)/Color/B/W					
BLC	Yes					
HLC	Yes					
WDR	120 dB					
Scene Self-adaptation (SSA)	Yes					
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom					
Gain Control	Auto/Manual					
Noise Reduction	3D NR					
Motion Detection	OFF/ON (4 areas, rectangular)					
Region of Interest (RoI)	Yes (4 areas)					
Smart Illumination	Yes					
Smart Dual Light	Yes					
Defog	Yes					
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)					
Mirror	Yes					
Privacy Masking	8 areas					
LDC	Yes					
Audio						
Built-in MIC	Yes, built-in dual Mic					
Built-in Speaker	Yes, built-in speaker					
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723					

Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion Alarm Event detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception Network Network Port RJ-45 (10/100 Base-T) SDK and API Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P Interoperability ONVIF (Profile S; Profile G; Profile T); CGI 20 (Total bandwidth: 64 M) User/Host FTP;SFTP; Micro SD card (support max. 512 GB); NAS Storage IE: IE11 Browser Chrome Firefox Management Software Smart PSS Lite; DSS; DMSS; DoLynk Care Mobile Client iOS;Android Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security Cyber Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog; HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade Certification CE-LVD: EN 62368-1; Certifications CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU Port Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 1 channel in: wet contact, 5 mA 3–5 VDC Alarm Output 1 channel out: wet contact, 300 mA 12 VDC Power Power Supply 12 VDC/PoE+ (802.3at) When the power adapter and PoE provide power at the same time, disconnect one of them. The device will Dual Power Backup continue to work, but will not restart. Basic: 4.3 W (12 VDC); 6.2 W (PoE) Max. (H.265+WDR+ warm light+siren and light active **Power Consumption** deterrence + intelligence on): 11.8 W (12 VDC); 15.1 W (PoE) Environment **Operating Temperature** -40 °C to +60 °C (-40 °F to +140 °F) **Operating Humidity** ≤95% (RH), non-condensing Protection IP67

-40 °C to +60 °C (-40 °F to +140 °F)

≤95% (RH), non-condensing

Storage Temperature

Storage Humidity

Structure

Casing Material	Metal + plastic		
Product Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72"× 3.33") (L × W × H)		
Net Weight	1.0 kg (2.20 lb)		
Gross Weight	1.3 kg (2.87 lb)		

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HFW3849T1-AS- PV-PRO	8MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera		
	PFA135	Junction Box		
	PFA130-E	Water-proof Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM320D-EN	12 VDC 2A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



PFA135

Junction Box





Water-p

PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket

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MSIS V30



PFM320D-EN 12 VDC 2A Power Adapter

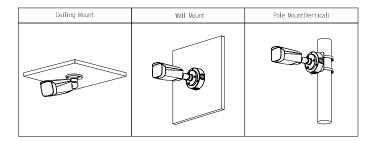


PFM900-E

TF-P

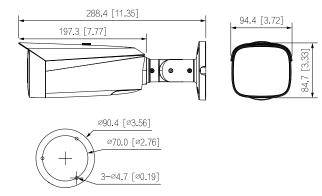
Integrated Mount Tester







Dimensions (mm[inch])



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