

DH-IPC-HFW3849T1-AS-PV

8MP Smart Dual Illumination 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. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

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.

Smart Dual Illuminators

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

- * The parameters and datasheets below can only be applied to 3849-PV-S4 series.
- 8-MP 1/2.8" 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 warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 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. 256 G Micro SD card; buit-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.
- One-click arming/disarming through alarm input.



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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification							Video Frame Rate	Main stream: 3840 × 2160@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps)
Camera								
Image Sensor		1/2.8" CMOS						Third stream:1920 × 1080@(1 fps-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding
Max. Resolution		3840 (H) × 2160 (V)						capacity
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M
Scanning System		Progressive					Resolution	(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 32kbps-8192 kbps H.265: 12kbps-8192 kbps
S/N Ratio		> 56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		30 m (98.43 ft) (IR)					BLC	Yes
		30 m (98.43 ft) (warm light) Auto/Manual					HLC	Yes
	Illuminator On/Off Control						WDR	120 dB
Illuminator Number		2 (IR LED) 2 (warm light	.)				Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Mount Type		M12					Motion Detection	OFF/ON (4 areas)
Focal Length		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Field of View		2.8 mm: H: 106°; V: 55°; D: 125°					Smart Illumination	Yes
Iris Type		3.6 mm: H: 85°; V: 45°; D: 100° Fixed					Defog	Yes
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (6.23 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI	2.8 mm	91.0 m	36.4 m	18.2 m	9.1 m		Privacy Masking	8 areas
Distance	2.011111	(298.56 ft)	(119.42 ft)	(59.71 ft)	(29.86 ft)		Alarm	
la ta ll'anna	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
Intelligence		Tripwire; intrusion (support the classification and					Aldini Event	changing; audio detection; voltage detection; external alarm; SMD; security exception
IVS (Perimeter Protection)		accurate detection of vehicle and human)					Network	
SMD 4.0		Less false alarm, longer detection distance					Network	RJ-45 (10/100 Base-T)
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					SDK and API	Yes
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video							Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)						NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P;
Smart Codec		Smart H.265+; Smart H.264+					Interoperability	RTMP
AI Coding		AI H.265; AI H.264						

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User/Host	20 (Total bandwidth: 72 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS				
Browser	IE: IE8/9/11 Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	iOS; Android				
Certification					
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1-14;				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5mA 3V–5 VDC				
Alarm Output	1 channel out: 300mA 12 VDC				
Power					
Power Supply	12V DC/PoE (802.3af)				
Power Consumption	Basic: 4.5 W (12 VDC); 5.5 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 7.6 W (12 VDC); 9.1 W (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 (11.35" × 3.72" × 3.33") (L × W × H)				
Net Weight	1.0 kg (2.20 lb)				
Gross Weight	1.23 kg (2.71 lb)				

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HFW3849T1-AS-PV	8MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera				
Camera	IPC-HFW3849T1-AS-PV	8MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera				
	PFA135	Junction Box				
	PFA130-E	Water-proof Junction Box				
Accessories	PFA152-E	Pole Mount Backet				
(Optional)	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:



PFA135

Junction Box



PFA130-E Water-proof Junction Box

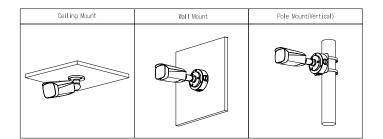


PFA152-E Pole Mount Bracket





TF-P100 MicroSD Memory Card



PFM321D

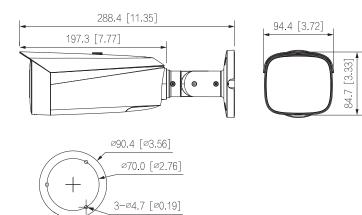
12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

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Dimensions (mm[inch])



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