

DH-IPC-HFW3849T1-ZAS-PV

8MP Smart Dual Light Active Deterrence Vari-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. 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 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 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.

- 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 50 m and warm light distance is 40 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; built-in dual Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- · One-tap 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 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						Smart Codec	Smart H.265+; Smart H.264+	
Camera						AI Coding	AI H.265; AI H.264	
Image Sensor		1/2.8" CMOS				Video Frame Rate	Main stream: 3840 × 2160@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30	
Max. Resolution		3840 (H) × 2160 (V)					fps) Third stream: 1920 × 1080@ (1–30 fps)	
ROM		128 MB					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
RAM		1 GB				Stream Capability	to the total encoding capacity	
Scanning System		Progressive				Stream Capability	3 streams	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 ×	
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					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)	
S/N Ratio	S/N Ratio					Bit Rate Control	CBR/VBR	
Illumination	Illumination Distance		ft) (IR) ft) (warm light	:)		Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Illuminator C	Illuminator On/Off Control					Day/Night	Auto (ICR)/Color/B/W	
Illuminator Number		2 (IR LED) 2 (warm light)				BLC	Yes	
		Pan: 0°–360°				HLC	Yes	
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°				WDR	120 dB	
Lens						Scene Self-adaptation	Yes	
Lens Type		Motorized vari-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Mount Type		ф16				Gain Control	Auto; manual	
Focal Length		2.7 mm-13.5 mm				Noise Reduction	3D NR	
Max. Apertu	Max. Aperture					Motion Detection	OFF/ON (4 areas)	
Field of View	Field of View		08°–34° -19°			Region of Interest (RoI)	Yes (4 areas)	
		Diagonal: 130°–39°				Image Stabilization	Electronic Image Stabilization (EIS)	
Iris Type		Fixed				Smart Illumination	Yes	
Close Focus Distance		1.5 m (4.92 ft)				Defog	Yes	
DORI	Lens W	Detect 89.9 m	Observe 36.0 m	Recognize 18.0 m	Identify 9.0 m	Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)	
Distance	•	(294.95 ft) 257.4 m	(118.11 ft) 103.0 m	(59.06 ft) 51.5 m	(29.53 ft) 25.7 m	Mirror	Yes	
	Т	(844.49 ft)	(337.93 ft)	(168.96 ft)	(84.32 ft)	Privacy Masking	4 areas	
Profession	nal, intellige	ent				Audio	Audio	
IVS (Perimet	IVS (Perimeter Protection)		usion (support ection of vehicl	the classification e and human)	on and	Built-in Mic	Yes, built-in dual Mic	
SMD 4.0		Less false alarm, longer detection distance				Built-in speaker	Yes, built-in speaker	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Audio Compression	Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Alarm	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	
AI SSA Video		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				Alarm Event	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception	
	rossion	H.265; H.264; H.264H; H.264B; MJPEG (only supported			y supported	Network		
Video Compression		by the sub stream)				Network	RI-45 (10/100 Rase-T)	

Network

RJ-45 (10/100 Base-T)

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SDK and API	Yes	
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	
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
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	SmartPSS Lite; 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: 4.3 W (12 VDC); 5.5 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 9.8 W (PoE)	
Environment		
Operating Conditions	−30 °C to +60 °C (−22 °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	1.05 kg (2.31 lb)	
Gross Weight	1.35 kg (2.98 lb)	

Ordering Information							
Туре	Model	Description					
8MP Camera	DH-IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Light Active Deterrence Vari-focal Bullet WizSense Network Camera					
	IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Light Active Deterrence Vari-focal Bullet WizSense Network Camera					
	PFA135	Junction Box					
	PFA130-E	Junction Box					
Accessories	PFA152-E	Pole Mount Backet					
(Optional)	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	TLC SD Card					

Accessories

Optional:







PFA135 Junction Box

PFA130-E Junction Box

PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	9	

Dimensions (mm[inch])





