

DH-IPC-HFW3849T1-ZAS-PV

8MP Smart Dual Illumination 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 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

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.

- 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; buit-in dual MICs; 1-ch speaker.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 3.0.
- 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 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								Main stream: 3840 × 2160@(1 fps=30 fps)
Camera						Video Frame Rate	Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream:1920 × 1080@(1 fps-30 fps)	
Image Sensor		1/2.8" CMOS						*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)					Streets Conchility	capacity
ROM		128 MB					Stream Capability	3 streams
RAM		1 GB					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 ×
Scanning System		Progressive						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@F1.2 (Color, 30 IRE) 0.0004 lux@F1.2 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		50 m (164.04 ft) (IR)					BLC	Yes
Illuminator (ft) (warm light)			HLC	Yes
Illuminator On/Off Control		Auto/Manual 2 (IR LED)					WDR	120 dB
Illuminator Number		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		Motorized vari-focal					Noise Reduction	3D NR
Mount Type		ф16					Motion Detection	OFF/ON (4 areas)
Focal Length		2.7 mm-13.5 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F1.2					Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Horizontal: 10					Smart Illumination	Yes
Field of View		Vertical: 56°–19° Diagonal: 130°–39°					Defog	Yes
Iris Type		Fixed					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Close Focus	Distance	1.5 m (4.92 ft)					Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
DORI Distance	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	19.0 m (62.34 ft)		Alarm	
	T	257.4 m (844.49 ft)	103.0 m (337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)			No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Profession	nal, intellige	nt					Alarm Event	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Notwork	detection; external alarm; SMD; security exception
SMD 3.0		Less false alarm, longer detection distance					Network	DL 45 /40 /400 D. T.
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Network SDK and API	RJ-45 (10/100 Base-T) Yes
Video	Video							Video encryption; firmware encryption; configuration
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					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; trusted execution; trusted upgrade
Smart Codec		Smart H.265+; Smart H.264+					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
AI Coding		AI H.265; AI H.264						NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP

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Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
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 (3.5 mm JACK port)	
Audio Output	1 channel (3.5 mm JACK 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	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH	
Storage Conditions	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})$	
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 (2.4 lb)	

Ordering Information						
Туре	Model	Description				
8MP Camera	DH-IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Illumination Active Deterrence Vari-focal Bullet WizSense Network Camera				
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	PFA135	Junction Box				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount Backet				
Accessories (Optional)	PFM321D	12 VDC 1A Power Adapter				
(Орсіонаі)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:







PFA130-E Junction Box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





