

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; support two-way talk.
- 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@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30
Camera				Video Frame Rate	fps) Third stream: 1920 × 1080@ (1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected			
Image Sensor		1/2.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Stream Capability	to the total encoding capacity 3 streams
ROM		128 MB					Stream capability	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
RAM		1 GB					Resolution	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@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (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
		40 m (131.23 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		F1.0					Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Horizontal: 108°–34°					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	
	Т	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
Profession	nal, intellige						Alarm Event	disconnection; IP conflict; illegal access; motion 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)					Network	detection; external alarm; SMD; security exception
SMD 3.0		Less false alarm, longer detection distance						DI 45 (40 (400 D T)
Lutallianut Canada		Work together with Smart NVR to perform refine					Network	RJ-45 (10/100 Base-T)
Intelligent Search		intelligent search, event extraction and merging to event videos					SDK and API	Yes
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					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
Smart Codec		Smart H.265+; Smart H.264+					Donton	execution; trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMD: CMTD: TTD: SCTD: DLCD: DNS: DDNS: Cost UDD: DNS: DNS: Cost UDD: DNS: DNS: Cost UDD: DNS: DNS: Cost UDD: DNS: DNS: DNS: Cost UDD: DNS: DNS: DNS: DNS: DNS: DNS: DNS: D
AI Coding		AI H.265; AI H.264					Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; 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 (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	$-30~^{\circ}\text{C}$ 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 (2.98 lb)			

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Illumination Active Deterrence Vari-focal Bullet WizSense Network Camera				
Camera	IPC-HFW3849T1-ZAS-PV	8MP Smart Dual Illumination 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)

Dimensions (mm[inch])





