

# DH-IPC-HFW3849T1-ZS-PV-K

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;
- 12 VDC/PoE power supply.
- IP67 protection.
- · 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						Al Coding	AI H.265; AI H.264
Image Sensor		1/2.8" CMOS					Main stream: 3840 × 2160@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30
Max. Resolution		3840 (H) × 2160 (V)				Video Frame Rate	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				G	to the total encoding capacity
Scanning System		Progressive				Stream Capability	3 streams
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					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 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				Resolution	
S/N Ratio		>56 dB				Bit Rate Control	CBR/VBR
Illumination Distance		50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light)				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illuminator On/Off Control		Auto/Manual				Day/Night	Auto (ICR)/Color/B/W
Illuminator Number		2 (IR LED)				BLC	Yes
Angle Adjustment		2 (warm light) Pan: 0°–360°				HLC	Yes
		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	5 mm			Noise Reduction	3D NR
Max. Aperture		F1.0				Motion Detection	OFF/ON (4 areas)
Field of View		Horizontal: 108°–34° Vertical: 56°–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	t)			Defog	Yes
DORI	Lens	Detect 89.9 m	Observe 36.0 m	Recognize 18.0 m	Identify 9.0 m	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Distance	W	(294.95 ft)	(118.11 ft)	(59.06 ft)	(29.53 ft)	Mirror	Yes
	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)	Privacy Masking	4 areas
Profession	nal, intellige	nt				Audio	
IVS (Perimete	er Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Built-in Mic	None
SMD 4.0		Less false alarm, longer detection distance				Built-in speaker	None
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Audio Compression	None
		Work together with Smart NVR to perform refine				Alarm	
Smart Search Al SSA		intelligent search, event extraction and merging to event videos  Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
Video						Network	2.130don, external didnin, sind, accountly exception
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Network	RJ-45 (10/100 Base-T)

# Wiz Sense | DH-IPC-HFW3849T1-ZS-PV-K

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	DH-IPC-HFW3849T1-ZS-PV	8MP Smart Dual Light Active Deterrence Vari-focal Bullet WizSense Network Camera					
Camera	IPC-HFW3849T1-ZS-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:





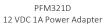


PFA135 Junction Box

PFA130-E Junction Box

PFA152-E Pole Mount Bracket











TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])

