

# DH-IPC-HFW3849T1-AS-PV-ANZ-S2

8MP Smart Dual Light 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**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

#### **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.

#### 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.

## **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 white 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 white light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### **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.

- 8-MP 1/2.7" 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; built-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.
- · Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.













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

Technical Specification						AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.	
Camera						Video	or the image to out the continuous.	
Image Sensor		1/2.7" CMOS					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported
Max. Resolution		3840 (H) × 2160 (V)					·	by sub stream)
ROM		256 MB					Smart Codec	Smart H.265+; Smart H.264+  Al H.265 (Compression rate ≥25%)
RAM		2 GB					Al Coding	Al H.264 (Compression rate ≥25%)
Scanning System		Progressive						Main stream: 3840 × 2160 @(1 fps–25/30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	fps=30 fps) Third stream: $1920 \times 1080@ (1 \text{ fps}-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)						
S/N Ratio		>56 dB					Stream Capability	3 streams
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)					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 (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator On/Off Control		Auto;Manual						
Illuminator Number		2 (IR LED); 2 (Warm light) Pan: 0°–360°					Bit Rate Control	VBR; CBR; ABR
Angle Adjustment		Fall: 0 -560 Tilt: 0°-90° Rotation: 0°-360°					Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps
Lens							Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal					BLC	Yes
Lens Mount		M12					HLC	Yes
Focal Length		2.8 mm;3.6 mm					WDR	120 dB
Max. Aperture		F1.0					Scene Self-adaptation (SSA)	Yes
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85; V: 45°; D: 102°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Fixed					Gain Control	Auto/Manual
Close Focus I	Distance	2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Region of Interest (RoI)	Yes (4 areas)
DORI	3.6 mm	78.0 m	22.2 m	15.6 m	7.8 m		Smart Illumination	Yes
Distance		(255.91 ft) (102.36 ft) (51.18 ft)			(25.59 ft)	Defog	Yes	
	for defining the objects within a function distan	DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) or defining the ability of a person viewing the video to distinguish persons or bjects within a covered area. The numbers in this table do not reflect intelligent unction distances, refer to installation and					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
		manual/project design tool.					Mirror	Yes
Intelligence		Intrusion, tripwire (the two functions support the					Privacy Masking	4 areas
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					LDC	Yes
SMD		SMD 4.0					Audio	
Smart Sparch		Work together with Smart NVR to perform refine					Built-in MIC	Yes, built-in dual Mic
Smart Search		intelligent search, event extraction and merging to event videos					Built-in Speaker	Yes, built-in speaker
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
		,						

Alarm		
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; external alarm; SMD; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; SNMP; P2P	
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS	
Browser	IE: IE11 Chrome Firefox	
Management Software	Smart PSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
Cyber Security	Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 ce rtification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC	
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 4.5 W (12 VDC); 5.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 7.7 W (12 VDC); 9.4 W (PoE)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Protection	IP67	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
61		

Metal + plastic

Structure
Casing Material

Product Dimensions	288.4 mm $\times$ 94.4 mm $\times$ 84.7 mm (11.35" $\times$ 3.72"× 3.33") (L $\times$ W $\times$ H)		
Net Weight	1.0 kg (2.20 lb)		
Gross Weight	1.23 kg (2.71 lb)		

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HFW3849T1-AS- PV-ANZ-S2	8MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera			
	PFA135	Junction Box			
	PFA130-E	Water-proof Junction Box			
Accessories	PFA152-E	Pole Mount Bracket			
(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



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])



