

DH-IPC-HFW2449TL-S-PV

4MP Smart Dual Light Active Deterrence Fixed-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 2 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 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.

SMD Plus

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 \times 1520)@20 fps, and 4 MP (2560 \times 1440)@25/30 fps by default.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, and the max. IR illumination distance is 30 m, the max. warm light distance is 30 m.
- ROI, SMART 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 functions support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports max. 256 G Micro SD card; built-in Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Sound and light alarm
- SMD Plus.
- · One-tap arming/disarming.















Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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				Smart Codec	Smart H.265+; Smart H.264+			
Camera					Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@			
Image Sensor		1/2.9" CMOS				Video Frame Rate	(1–25/30 fps); sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps); *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 MB					to the total encoding capacity.	
RAM		128 MB				Stream Capability	2 streams	
Scanning System		Progressive				Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (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)	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE)				Bit Rate Control	CBR/VBR	
S/N Ratio		0 lux (Illuminator on) >56 dB				Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps	
Illumination	Distance	Up to 30 m (98.43 ft) (IR)				Day/Night	Auto(ICR)/Color/B/W	
		Up to 30 m (98.43 ft) (Warm Light)				BLC	Yes	
Illuminator C	n/Off Control	Auto;Manual				HLC	Yes	
Illuminator N	lumber	2 (IR LED); 2 (Warm light)				WDR	120 dB	
Angle Adjustment		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		Fixed-focal				Noise Reduction	3D NR	
Lens Mount		M12				Motion Detection	OFF/ON (4 areas, rectangular)	
Focal Length	Focal Length		2.8 mm; 3.6 mm				Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	re	F1.0				Smart Illumination	Yes	
Field of View	,	2.8 mm: H: 101.6°; V: 54.8°; D: 122.1° 3.6 mm: H: 84°; V: 45.6°; D: 98.9°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Iris Control		Fixed				Mirror	Yes	
Close Focus I	Distance	2.8 mm: 1.4 m (4.59 ft) 3.6 mm: 2.0 m (6.56 ft)				Privacy Masking	4 areas	
	Lens	Detect	Observe	Recognize	Identify		Audio	
	2.8 mm	63.8 m	25.5 m	12.8 m	6.4 m		Built-in MIC	Yes, built-in Mic
		(209.32 ft) 77.8 m	(83.66 ft) 31.1 m	(41.99 ft) 15.6 m	(21.00 ft) 7.8 m		Built-in Speaker	Yes, built-in speaker
DORI Distance	3.6 mm	(255.25 ft)	(102.03 ft)	(51.18 ft)	(25.59 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
Distance		*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the					Alarm	
video to distir numbers in th For intelligent		nguish persons or objects within a covered area. The nis table do not reflect intelligent function distances. It function distances, refer to installation and manual/project design tool.				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception	
Intelligence				Network				
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Network Port	RJ-45 (10/100 Base-T)	
SMD		human) SMD Plus					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; NFS; P2P; auto registration	
Vidas		videos				Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
Video		H.265; H.264; H.264H; H.264B; MJPEG (only supported				User/Host	6 (Total bandwidth: 36 M)	
Video Compression		h.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	

Wiz Sense | DH-IPC-HFW2449TL-S-PV

Browser	IE; Chrome; Firefox	
Management Software	Smart PSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;WSSE;Account lockout;syslog;Video encryption;802.1x;IP/MAC filtering;HTTPS;Trusted upgrade;Trusted boot;Generation and importing of X.509 certification	

Certification

	CE-LVD: EN62368-1;
Certifications	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU

Power

Power Supply	12 VDC/PoE
Power Consumption	Basic: 2.2 W (12 VDC); 3 W (PoE) Max. (H.265 + intelligence on + WDR + IR intensity + warm light deterrence + speaker): 11.9 W (12 VDC); 13.6 W (PoE)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95%		
Protection	IP67		

Structure

Casing Material	Metal
Product Dimensions	197.9 mm × 80.2 mm × 76.2 mm (7.79" × 3.16" × 3.00") (L × W × H)
Net Weight	0.53 kg (1.17 lb)
Gross Weight	0.67 kg (1.48 lb)

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW2449TL-S-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Bullet WizSense Network Camera		
	PFA134	Junction Box		
	PFA130-E	IP66 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:



Junction Box





PFA130-E IP66 Junction Box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	50	

Dimensions (mm[inch])





