

DH-IPC-HFW2249TL-S-PV

2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- 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.
- $\boldsymbol{\cdot}$ 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	on				-	Smart Codec	Smart H.265+; Smart H.264+
Camera					Main stream: 1920 × 1080@(1-25/30 fps);			
Image Sensor		1/2.8" CMOS					Video Frame Rate	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 to the total encoding capacity.
Max. Resolution		1920 (H) × 1080 (V)						
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Decelotion	1080p (1920 × 1080); 1.3M (1280 × 1080); 720p (1280 ×
Scanning System		Progressive					Resolution	720); D1 (704 ×576/704 × 480); VGA (680x480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	CBR/VBR			
Min. Illumination		0.0017 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
S/N Ratio		0 lux (Illuminator on) >56 dB					Day/Night	Auto(ICR)/Color/B/W
		Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illumination I	Distance	Up to 30 m (98.43 ft) (Warm Light)				HLC	Yes	
Illuminator O	n/Off Control	Auto; Manual				WDR	120 dB	
Illuminator Number		2 (IR LED); 2 (Warm light) Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°				Gain Control	Auto/Manual	
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm;3.6 mm					Smart Illumination	Yes
Max. Apertur	re	F1.0					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Field of View		2.8 mm: H: 106.1°; V: 56.4°; D: 128.5° 3.6 mm: H: 87.4°; V: 47.0°; D: 103.1°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus D	Distance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.5 m (4.92 ft)				Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
		44.0 m	17.6 m	8.8 m	4.4 m		Built-in Speaker	Yes, built-in speaker
	2.8 mm	(144.36 ft)	(57.74 ft)	(28.87 ft)	(14.44 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
DORI	3.6 mm	53.7 m (176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 ft)		Alarm	
(EN-62676-4) video to distir		t, Observe, Recognize, Identify) is a standard system for defining the ability of a person viewing the nguish persons or objects within a covered area. The his table do not reflect intelligent function distances. If function distances, refer to installation and granual/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
For intelligent							Network	
Intelligence			Network Port	RJ-45 (10/100 Base-T)				
_		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					SDK and API	Yes
,		human) SMD Plus					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
Smart Search		Work together with Smart NVR to perform refine					Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI
		intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 36 M)	
Video							Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Video Compr	ession	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)				Browser	IE; Chrome; Firefox	

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NA	C L DOCK'S DOC DAMCC
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	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

Power

Power Supply	12 VDC/PoE
Power Consumption	Basic: 1.9 W (12 VDC); 2.4 W (PoE) Max. (H.265 + intelligence on + WDR + IR intensity + warm light deterrence + speaker): 11.5 W (12 VDC); 13.1 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		
2MP Camera	DH-IPC-HFW2249TL-S-PV	2MP 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:



PFA134 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)
	0500	

Dimensions (mm[inch])





