



DH-IPC-HFW2449T-AS-IL

4MP Smart Dual Illumination 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

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 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.

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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR light distance is 60 m and max. warm light is 50 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.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card: built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- · SMD Plus.













Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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					Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@			
Camera							Video Frame Rate	(1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Image Sensor		1/2.9" CMOS					video Frame Rate	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)					to the total encoding capacity.	
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Resolution	4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Scanning Sys	stem	Progressive						(352 × 288/352 × 240)
Electronic Sh	hutter Speed	Auto/Manual 1/3 s–1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumin	ation	0.006 Lux@F1.6(Color,30IRE) 0.0006 Lux@F1.6(B/W,30IRE)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
	Wiiii. Illullilliatioii		0 lux (Illuminator on)				Day/Night	Auto(ICR)/Color/B/W
S/N Ratio	S/N Ratio		>56 dB				BLC	Yes
Illumination		60 m (195.85 ft) (IR); 50 m (164.04 ft) (Warm light)					HLC	Yes
	On/Off Control						WDR	120 dB
Illuminator Number		2 (IR LED); 2 (Warm light) Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rotation Range		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		3.6 mm; 6 mm; 8 mm					Smart Illumination	Yes
Max. Apertu	ıre	F1.6					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Field of View		3.6 mm: H: 84°; V: 42°; D: 101°					Mirror	Yes
rield of view	v	6 mm: H: 52°; V: 28°; D: 61° 8 mm: H: 40°; V: 23°; D: 46°					Privacy Masking	4 areas
Iris Control		Fixed					Audio	
Close Focus	Distance	3.6 mm: 1.7					Built-in MIC	Yes
Close Focus	Distance	6 m: 3.2 m (10.50 ft) 8 mm: 4.6 m (15.09 ft)				Audio Compression	G.711a; G.711Mu; G.726; PCM	
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI	3.6 mm	85.4 m (208.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio
Distance	6 mm	124.0 m (406.82 ft)	49.6 m (162.73 ft)	24.8 m (81.36 ft)	12.4 m (40.68 ft)		Aldrii Evelit	detection; voltage detection; SMD; security exception; external alarm
	8 mm	150.4 m (493.44 ft)	60.2 m (197.51 ft)	30.1 m (98.75 ft)	15.0 m (49.21 ft)		Network	
Intelligen	ice						Network Port	RJ-45 (10/100 Base-T)
			Intrusion, tripwire (the two functions support the				SDK and API	Yes
IVS (Perimet	IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Interoperability	ONVIF (Profile S/Profile T/Profile G); CGI
							User/Host	6 (Total bandwidth: 36 M)
Video	Video						Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Video Compression		$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (Only supported by the sub stream)					Management Software	SmartPSS Lite; DSS; DMSS
Smart Codec		Smart H.265+; Smart H.264+					Browser	IE; Chrome; Firefox

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Mobile Client iOS; Android	
cyber Security security logs encryption; 3	n encryption; trusted execution; Digest; ; WSSE; account lockout; syslog; video 802.1x; IP/MAC filtering; HTTPS; trusted sted boot; generation and importing of cation

Certification

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300mA 12 VDC

Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 2 W (12 VDC); 2.6 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator on): 6.1 W (12 VDC); 7.2 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; IK10 (optional)
Anti-corrosion Level	Low

Structure

Casing Material	Metal
Product Dimensions	238.5 mm \times 90.7 mm \times 90.7 mm (9.39" \times 3.57" \times 3.57") (L \times W \times H)
Net Weight	0.72 kg (1.59 lb)
Gross Weight	0.95 kg (2.09 lb)

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW2449T-AS-IL	4MP Smart Dual Illumination Fixed- focal Bullet WizSense Network Camera		
	PFA130-E	Water-proof Junction Box		
	PFA152-E	Pole Mount Bracket		
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional







PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket

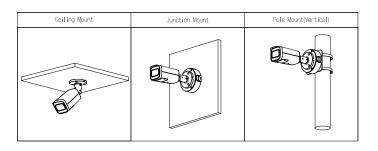
PFM321D 12 VDC 1 A Power Adapter





PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

