

DH-IPC-HFW2449T-AS-IL

4MP Smart Dual Light 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 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.

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						Video		
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.9" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		2688 (H) × 1520 (V)					Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
ROM		128 MB						
RAM		128 MB						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Scanning System		Progressive					0. 0. 1.111	to the total encoding capacity.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Stream Capability	2 streams 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296);
Min. Illumination		0.006 Lux@F1.6(Color,30IRE) 0.0006 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
S/N Ratio		>56 dB					Bit Rate Control	CBR/VBR
Illumination [Illumination Distance		Up to 60 m (195.85 ft) (IR) Up to 50 m (164.04 ft) (Warm light)				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Illuminator O	n/Off Control	Auto; Manua	ıl				Day/Night	Auto(ICR)/Color/B/W
Illuminator N	umber	2 (IR LED); 2 (Warm light)					BLC	Yes
Pan/Tilt/Pota	ation Pango	Pan: 0°–360°					HLC	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					WDR	120 dB
Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Fixed-focal					Gain Control	Auto; Manual
Lens Mount		M12					Noise Reduction	3D NR
Focal Length		3.6 mm; 6 mm; 8 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Apertur	re	F1.6					Region of Interest (RoI)	Yes (4 areas)
Field of View	Field of View		3.6 mm: H: 84°; V: 42°; D: 101° 6 mm: H: 52°; V: 28°; D: 61°				Smart Illumination	Yes
Iris Control		8 mm: H: 40°; V: 23°; D: 46° Fixed					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
							Mirror	Yes
Close Focus D	Distance	3.6 mm: 1.7 m (5.58 ft) 6 m: 3.2 m (10.50 ft) 8 mm: 4.6 m (15.09 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Built-in MIC	Yes
	3.0111111	(208.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
	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)		Alarm	
DORI Distance	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)			No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
	(EN-62676-4)	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/					Alarm Event	detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception; external alarm
	this table do n function distar						Network	
project design tool.				Network Port	RJ-45 (10/100 Base-T)			
Intelligenc	e						SDK and API	Yes
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the 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				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
Siliai f Search	Smart Search		intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 36 M)

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Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Management Software	SmartPSS Lite; DSS; DMSS	
Browser	IE; Chrome; Firefox	
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		

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 Light 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







PFA152-E Pole Mount Bracket



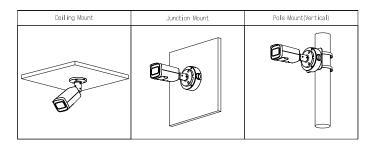
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

