



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	on						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 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected		
Image Sensor		1/2.9" CMOS						
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 System		Progressive					B'' B	(352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.006 Lux@F1.6(Color,30IRE) 0.0006 Lux@F1.6(B/W,30IRE)					Video Bit Rate Day/Night	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps Auto(ICR)/Color/B/W
S/N Ratio		0 lux (Illuminator on)						
		>56 dB				BLC	Yes	
Illumination	Distance	Up to 60 m (195.85 ft) (IR) Up to 50 m (164.04 ft) (Warm light)				HLC	Yes	
Illuminator C	On/Off Control	Auto; Manual				WDR	120 dB	
Illuminator Number		2 (IR LED); 2 (Warm light)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Gain Control	Auto; Manual	
		Rotation: 0°–360°				Noise Reduction	3D NR	
Lens						Motion Detection	OFF/ON (4 areas, rectangular)	
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)	
Lens Mount		M12				Smart Illumination	Yes	
Focal Length		3.6 mm; 6 mm; 8 mm					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Max. Apertu	re	F1.6				Mirror	Yes	
Field of View	I	3.6 mm: H: 84°; V: 42°; D: 101° 6 mm: H: 52°; V: 28°; D: 61°				Privacy Masking	4 areas	
luia Cambual		8 mm: H: 40°; V: 23°; D: 46°				Audio		
Iris Control		Fixed				Built-in MIC	Yes	
Close Focus	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)				Audio Compression	G.711a; G.711Mu; G.726; PCM	
							Alarm	
DORI Distance	3.6 mm	Detect 85.4 m (208.18 ft) 124.0 m	Observe 34.2 m (112.20 ft) 49.6 m	17.1 m (56.10 ft) 24.8 m	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 detection; voltage detection; SMD; security exception; external alarm
	0 111111	(406.82 ft)	(162.73 ft)	(81.36 ft)	(40.68 ft)		Network	
	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 Port	RJ-45 (10/100 Base-T)
Intelligence							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 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						Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Video Comp	ression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub-tream)				Management Software	SmartPSS Lite; DSS; DMSS	
Smart Codeo		by the sub stream) Smart H.265+; Smart H.264+				Browser	IE; Chrome; Firefox	
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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
Cortification	

Certification

CE-EMC: Electromagnetic Compatibility Directive Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	Certifications	2014/30/EU
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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







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

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

