



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	l Specification	on						Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@
Camera	-)(1) 5 B	(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
Max. Resolution 2688 (H) × 1520 (V)					stream; for multiple streams, the values will be subjected to the total encoding capacity.			
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Danakatian	4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
	stem	Progressive					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System Electronic Shutter Speed		-	l 1/3 s–1/100.0	000 s			Bit Rate Control	CBR/VBR
Electronic 3i	natter speed	Auto/Manual 1/3 s=1/100,000 s 0.006 Lux@F1.6(Color,30IRE)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Min. Illumination		0.0006 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)					Day/Night	Auto(ICR)/Color/B/W
S/N Ratio		>56 dB					BLC	Yes
Illumination	Illumination Distance		Up to 60 m (195.85 ft) (IR) Up to 50 m (164.04 ft) (Warm light)				HLC	Yes
Illuminator (On/Off Control					WDR	120 dB	
Illuminator I	Number	2 (IR LED); 2 (Warm light)				White Balance	Auto; natural; street lamp; outdoor; manual; regional	
		Pan: 0°-360°	•				Coin Control	custom Auto; Manual
Pan/Tilt/Rot	tation Range	Tilt: 0°–90° Rotation: 0°–360°				Gain Control		
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)
			3.6 mm; 6 mm; 8 mm				Smart Illumination	Yes
Focal Length May Aporture		F1.6					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Wax. Aperte	Max. Aperture		3.6 mm: H: 84°; V: 42°; D: 101°				Mirror	Yes
Field of Viev	Field of View		6 mm: H: 52°; V: 28°; D: 61° 8 mm: H: 40°; V: 23°; D: 46°				Privacy Masking	4 areas
Iris Control		Fixed					Audio	
iiis Colitrol							Built-in MIC	Yes
Close Focus	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
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	3.6 mm	85.4 m (208.18 ft)	34.2 m (112.20 ft) 49.6 m	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 detection; voltage detection; SMD; security exception;
Distance	6 mm	(406.82 ft)	(162.73 ft)	(81.36 ft)	(40.68 ft)		Network	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 Port	RJ-45 (10/100 Base-T)
Intelligence								
		Intrusion, tripwire (the two functions support the					SDK and API	Yes
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		H.265; H.264; H.264H; H.264B; MJPEG (Only supported				Management Software	SmartPSS Lite; DSS; DMSS	
Smart Code			by the sub stream) Smart H.265+; Smart H.264+				Browser	IE; Chrome; Firefox
Sillar i Couet		5.11.3. C.11.2001, 511101 C.11.2011						

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 FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
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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







PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter

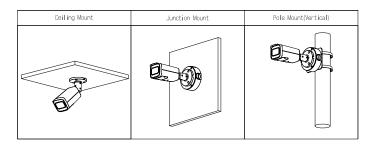


Junction Box

PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

