



DH-IPC-HFW2849T-AS-IL

8MP 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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688×1520 (2688 × 1520) @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				Stream Capability	2 streams
Camera							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);
Image Sensor		1/2.7" CMOS				Resolution	3072 ×1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
Max. Resolution		3840 (H) × 2160 (V)				Resolution	1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA
ROM		128 MB					(640 ×480); CIF (352 × 288/352 × 240)
RAM		256 MB				Bit Rate Control	CBR/VBR
Scanning System		Progressive				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Electronic Shutter Speed		Auto/Manua	1/3 s-1/100,0	00 s		Day/Night	Auto(ICR)/Color/B/W
		0.008 Lux@F1.6 (Color, 30 IRE)				BLC	Yes
Min. Illumination		0.0008 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				HLC	Yes
S/N Ratio		>56 dB				WDR	120 dB
Illumination Distance		up to 60 m (195.85 ft) (IR) up to 50 m (164.04 ft) (Warm light)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator (On/Off Control	Auto; Manual				Gain Control	Auto; Manual
Illuminator Number		2 (IR LED); 2 (Warm light)				Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Motion Detection	OFF/ON (4 areas, rectangular)
Long		Rotation: 0°–360°				Region of Interest (RoI)	Yes (4 areas)
Lens						Smart Illumination	Yes
Lens Type Lens Mount		Fixed-focal M12				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Focal Length		3.6 mm; 6 mm				Mirror	Yes
Max. Apertu		F1.6				Privacy Masking	4 areas
		3.6 mm: H: 87°; V: 49°; D: 100°				Audio	
Field of View	V	6 mm: H: 55°; V: 31°; D: 62°				Built-in MIC	Yes
Iris Control		Fixed				Audio Compression	G.711a; G.711Mu; G.726; PCM
Close Focus	Distance	3.6 mm: 1.9 m (6.23 ft) 6 mm: 3.5 m (11.48 ft)				Alarm	
	Lens	Detect	Observe	Recognize	Identify		No SD card; SD card full; SD card error; network
DORI Distance	3.6 mm	98.7 m (350.07 ft)	39.5 m (129.59 ft)	19.7 m (64.63 ft)	9.9 m (32.48 ft)	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception; external alarm
6 mm		154.7 m (507.55 ft)	61.9 m (203.08 ft)	30.9 m (101.38 ft)	15.5 m (50.85 ft)	Network	
Intelligen	ce						DI 45 (40/400 D
IVS (Perimet	er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Network Port SDK and API	RJ-45 (10/100 Base-T) Yes
		human) Work together with Smart NIVP to perform refine					
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P
Video		Interoperability	ONVIF (Profile S/Profile T/Profile G); CGI				
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
			3840 × 2160@	P(1–20 fps)/26	588×1520@	Management Software	SmartPSS Lite; DSS; DMSS
		(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30			480@(1–30	Browser	IE; Chrome; Firefox
Video Frame	Video Frame Rate		fps) *The values above are the max. frame rates of each				
		stream; for multiple streams, the values will be subjected			III be subjected	Mobile Client	iOS; Android

to the total encoding capacity.

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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: 300 mA 12 VDC

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.6 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + illuminator intensity + IVS): 7 W (12 VDC); 8.3 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	0.97 kg (2.14 lb)

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HFW2849T-AS-IL	8MP 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])

