



# DH-IPC-HFW2449S-S-LED

4MP Full-color 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**

### **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 the max. illumination distance is 30 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.
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply.
- IP67 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.

# 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				Stream Capability	2 streams		
Camera							4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2304 ×
Image Sensor		1/2.9" CMOS				Resolution	1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-6144 kbps
RAM		128 MB				Day/Night	H.265: 12 kbps-6144 kbps Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				HLC	Yes
Min. Illumination		0.004 Lux@F1.0				WDR	120 dB
S/N Ratio		>56 dB					Auto; natural; street lamp; outdoor; manual; regional
Illumination Distance		Up to 30 m (98.43 ft) (Warm light)				White Balance	custom
Illuminator (	On/Off Control	Auto; Manua	I			Gain Control	Auto;Manual
Illuminator N	lumber	2 (Warm light	t)			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		2.8 mm;3.6 mm				Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $2688\times1520$ resolution and lower)
Max. Aperture		F1.0				Mirror	Yes
Field of View		2.8 mm: H: 101°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 43°; D: 94°				Privacy Masking	4 areas
Iris Control		Fixed				Audio	
Close Focus	Distance	2.8 mm: 1.5 m (4.92ft)				Built-in MIC	Yes
	Lens	3.6 mm: 2.2 r	m (7.22 ft) Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; G.726; PCM
		66.0 m	26.4 m	13.2 m	6.6 m	Alarm	
DORI	2.8 mm 3.6 mm	(216.54 ft) 78.0 m (255.91 ft)	(86.61 ft) 31.2 m (102.36 ft)	(43.31 ft) 15.6 m (51.18 ft)	(21.65 ft) 7.8 m (25.59 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		ct, Observe, Recognize, Identify) is a standard system				Network	detection, votage detection, sixts, security exception
	video to distir	<ul> <li>-4) for defining the ability of a person viewing the stinguish persons or objects within a covered area. The of this table do not reflect intelligent function distances.</li> </ul>				Network Port	RJ-45 (10/100 Base-T)
	For intelligent	function distar	nces, refer to ir	stallation and	itances.	SDK and API	
Intellines.		ng manual/project design tool.				SDK and API	Yes  IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP
Intelligen	ce er Protection)	Intrusion, tripwire (the two functions support the				Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
ivs (Perimet	er Protection)	classification and accurate detection of vehicle and human).			ncie and	Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				User/Host	20 (Total bandwidth: 48 M)
Video		videos				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported			lly supported	Browser	IE; Chrome; Firefox
Video Compression		by the sub stream)			, 11	Management Software	Smart PSS Lite;DSS;DMSS
Smart Codec		Smart H.265+; Smart H.264+				Mobile Client	iOS; Android
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) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total poseding sappoint.			480@(1–30 s of each	Security	Trusted execution; Digest; security logs; WSSE; account lockout; syslog; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; generation and importing of X.509 certification

\*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.

# Wiz Sense | DH-IPC-HFW2449S-S-LED

# Certification

CE-LVD: EN62368-1; Certifications CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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# Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.7 W (12 VDC); 3.6 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator intensity): 6.8 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		

### Structure

Casing Material	Metal
Product Dimensions	70.0 mm × 70.0 mm × 166.2 mm (2.76" × 2.76" × 6.54") (L × W × H)
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.59 kg (1.30 lb)

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW2449S-S-LED	4MP Full-color Fixed-focal Bullet Wizsense Network Camera		
	PFA134	Junction Box		
	PFA130-E	Water-proof Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM321D	12 VDC 1A 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])





