

DH-IPC-HFW2449M-AS-LED-B

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 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: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, 12 VDC power output, max. current 165 mA, easy for installation.
- 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.

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					4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p			
Camera							Resolution	(1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.9" CMOS				Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) × 1520 (V)				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps	
ROM		128 MB				Day/Night	Color/B/W	
RAM		128 MB				BLC	Yes	
Scanning Sys	Scanning System		Progressive				HLC	Yes
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB
Min. Illumination		0.005 lux@F1.0					Auto; natural; street lamp; outdoor; manual; regional	
S/N Ratio		>56 dB				White Balance	custom	
Illumination	Distance	Up to 50 m (164.04 ft) (Warm light)				Gain Control	Auto; Manual	
Illuminator (On/Off Control	Auto; Manua	I				Noise Reduction	3D NR
Illuminator N	Number	4 (Warm light)				Motion Detection	OFF/ON (4 areas, rectangular)	
Lens							Region of Interest (RoI)	Yes (4 areas)
Lens Type		Fixed-focal					Smart Illumination	Yes
Lens Mount		M12				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)	
Focal Length	1	3.6 mm; 6 mm				Mirror	Yes	
Max. Aperture		F1.0				Privacy Masking	4 areas	
Field of View	Field of View		3.6 mm: H: 82°; V: 43°; D: 94° 6 mm: H: 55°; V: 30°; D: 63°				Audio	
Iris Control		Fixed				Built-in MIC	Yes	
Close Focus	Distance	3.6 mm: 2.2 m (7.22 ft)				Audio Compression	G.711a; G.711Mu; G.726; PCM	
	Lens	6 mm: 4.5 m Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	3.6 mm	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 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
	6 mm	120.0 m (393.70 ft)	48.0 m (157.48 ft)	24.0 m (78.74 ft)	12.0 m (39.37 ft)		Network	, , , , , ,
Intelligen	ce						Network Port	RJ-45 (10/100 Base-T)
N (C /D :	S	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).						
IVS (Perimet	er Protection)					SDK and API	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;	
Smart Search	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
\		videos				Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
video	Video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported				User/Host	20 (Total bandwidth: 48 M)
Video Compression		by the sub stream)				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Smart Codec		Smart H.265+; Smart H.264+				Browser	IE; Chrome; Firefox	
		Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@ (1–25/30 fps)					Management Software	Smart PSS Lite;DSS;DMSS
Video Frame Rate		Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)				Mobile Client	iOS;Android	
		*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC
Stream Capability		2 streams				filtering;HTTPS;trusted upgrade;trusted boot;firmware encryption;generation and importing of X.509 certification		

Certification

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

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC
Alarm Output	2 channels out: wet contact, 300mA 12V DC

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): 8.6 W (12 VDC); 10.6 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 + plastic		
Product Dimensions	201.0 mm × 103.8 mm × 97.8 mm (7.91" × 4.09" × 3.85") (L × W × H)		
Net Weight	0.71 kg (1.57 lb)		
Gross Weight	1.27 kg (2.80 lb)		

Ordering Information			
Туре	Model	Description	
4MP Camera	DH-IPC-HFW2449M-AS- LED-B	4MP Full-color Fixed-focal Bullet Wizsense Network Camera	
	PFB120WS	Wall Mount Bracket	
	PFB121W	Wall Mount Bracket	
	PFB110W	Ceiling Mount Bracket	
	PFA162	Universal Joint	
Accessories	PFA150	Pole Mount Bracket	
	PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Included:



PFB120WS Wall Mount Bracket

Optional:



PFB121W Wall Mount Bracket



PFB110W Ceiling Mount Bracket



PFA162 Universal Joint



PFA150 Pole Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount(Horizontal)
Pole Mount(Vertical)		

Dimensions (mm[inch])

