

DH-IPC-HFW2249M-AS-LED-B

2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@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.

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					1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280			
Image Sensor		1/2.8" CMOS					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		1920 (H) × 1080 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
RAM		128 MB					Day/Night	Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumination		0.0017 Lux@F1.0					WDR	120 dB
S/N Ratio		>56 dB						Auto; natural; street lamp; outdoor; manual; regional
Illumination	Distance	Up to 50 m (164.04 ft) (Warm light)					White Balance	custom
Illuminator C	n/Off Control	Auto; Manual					Gain Control	Auto; Manual
Illuminator N	lumber	4 (Warm light)					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					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Max. Aperture		F1.0					Mirror	Yes
Field of View		3.6 mm: H: 85°; V: 45°; D: 100° 6 mm: H: 57°; V: 31°; D: 65°				Privacy Masking	4 areas	
Iris Control		Fixed				Audio		
Close Focus I	Distance	3.6 mm: 1.7					Built-in MIC	Yes
	Lens	6 mm: 3.4 m Detect	Observe	Recognize	Identify		Audio Compression	G.711a; G.711Mu; G.726; PCM
		53.8 m	21.5 m	10.8 m	5.4 m		Alarm	
DORI Distance	3.6 mm 6 mm	(176.51 ft) 82.8 m (271.65 ft)	(70.54 ft) 33.1 m (108.60 ft)	(35.43 ft) 16.6 m (54.46 ft)	(17.72 ft) 8.3 m (27.23 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; external alarm;
Distance		I (Detect, Observe, Recognize, Identify) is a standard system 2676-4) for defining the ability of a person viewing the						security exception
		ers in this table do not reflect intelligent function distances.					Network	
	-		nces, refer to in ect design tool.				Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce						SDK and API	Yes
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
		human). Work together with Smart NVR to perform refine					Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI
Smart Search		intelligent search, event extraction and merging to event videos					User/Host	20 (Total bandwidth: 48 M)
Video							Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Browser	IE; Chrome; Firefox
		by the sub stream)					Management Software	Smart PSS Lite;DSS;DMSS
Smart Codec		Smart H.265+; Smart H.264+ Main stream: 1920 × 1080@(1–25/30 fps)					Mobile Client	iOS;Android
Video Frame Rate		Sub stream: 1920 × 1080@(1–25/50 lps) 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 encoding capacity.				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	

Certification

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 W (12 VDC); 2.7 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator intensity): 7.9W (12 VDC); 9.7 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 \times 103.8 mm \times 97.8 mm (7.91" \times 4.09" \times 3.85") (L \times W \times H)
Net Weight	0.71 kg (1.57 lb)
Gross Weight	1.27 kg (2.80 lb)

Ordering Information Model Type Description DH-IPC-HFW2249M-AS-2MP Full-color Fixed-focal Bullet 2MP Camera LED-B Wizsense Network Camera PFB120WS Wall Mount Bracket PFB121W Wall Mount Bracket PFB110W Ceiling Mount Bracket PFA162 Universal Joint PFA150 Pole Mount Bracket Accessories PFA152-E Pole Mount Bracket PFA121 Junction Box 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 Wall Mount Bracket



PFA162 Universal Joint



PFA150 Pole Mount Bracket



PFA152-E Pole Mount Bracket



PFA121 Junction Box



PFM321D 12 VDC 1 A Power Adapter



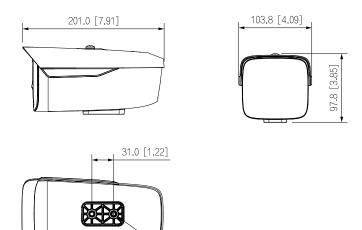
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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

Dimensions (mm[inch])



2-1/4-20 UNC-2Bx6.0