

DH-IPC-HFW2441DG-4G-SP-B-MAX

4MP Smart Dual Light Fixed-focal Bullet 4G Solar Power Network Camera



Series Overview

Driven by industry-leading technology, Dahua Wireless Series network cameras are highly precise and easy to install, producing high-quality images. They have strong wireless connection capabilities and do not require network cables, eliminating the need for a professional construction team. This series of cost-effective cameras supports local storage and is dustproof and waterproof. It is ideal for small and medium-sized scenes such as retail stores, homes, and other small and medium-sized enterprises.

Functions

AOV (Always-On Video) Mode

AOV (Always-On Video) technology offers a low power consumption solution that enables 24/7 video recording. Equipped with advanced AI algorithms, the camera can be woken up to perform detection even at long distances. During inactive periods, it records at a low frame rate and seamlessly escalates to a high frame rate when an event is detected, ensuring smooth and continuous video recordings.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2560 × 1440) @15 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR distance is 30 m and the max. warm light distance is 20 m.
- Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
- Built-in high-performance 4G Module that suits all mobile networks. Installation is no longer limited to wired networks.
- Built-in PIR sensor that detects human body through passive infrared which is sensitive to body temperature.
- In AOV mode, the camera wakes up when a person or vehicle appears, providing 24/7 surveillance while maintaining ultra-low power consumption.
- Supports max. 512 G Micro SD card; built-in Mic and speaker; supports two-way talk.
- The solar panel offers both integrated and detachable designs, and supports multi-dimensional angle adjustment.
- It features a built-in 64Wh high-capacity lithium iron phosphate battery with stable performance. The MAX version uses a widetemperature battery, making it suitable for a wider range of regions worldwide.
- It supports both 12 VDC and Type-C power supply options, used respectively for connecting an external solar panel and for temporary charging with a power bank.
- · IP67 protection.
- · SMD.



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.

Technical Specification						Streaming Capability	2 streams	
Camera					4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 ×			
Image Sensor	1/3" CMOS						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×
Max. Resolution	2560 (H) × 1440 (V)						Video Dit Doto	240)
ROM	128 MB						Video Bit Rate	H.265: 32 kbps-4096 kbps
RAM	128 MB	128 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System	Progressiv	Progressive					BLC	Yes
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s						HLC	Yes
Min. Illumination	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE)				WDR White Balance	DWDR Auto		
- 6	0 lux (Illuminator on)						Gain Control	Auto
S/N Ratio	>40 dB						Noise Reduction	3D NR
Illumination Distance		p to 30 m (9 n (65.62 ft) (Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control	Off Control Auto;Manual						Smart Dual Light	Yes
Illuminator Number	1 (IR LED);	1 (Warm lig	ght)				Privacy Masking	4 areas
	Pan: 0° to 360°				Audio			
Angle Adjustment Tilt: -60 °to 0° Rotation: 0° to 360°				Built-in MIC	Yes, built-in Mic			
Lens						Built-in Speaker	Yes, built-in speaker	
Lens Type	Fixed-focal						Audio Compression	G.711a
Lens Mount	M12						Alarm	
Focal Length	3.6 mm						Alarm Event	SD card error; SD card full; motion detection; PIR alarm; low battery alarm
Max. Aperture	F1.6				Network	·		
Field of View	3.6 mm: H: 78.4°; V: 42.4°; D: 92.4°				Network Port	RJ-45 (10/100 Base-T)		
Iris Control Fixed					(-EAU/EUR): FDD-LTE: B1/B3/B5/B7/B8/B20/B28;			
Close Focus Distance	3.6 mm: 1 Lens	.5 m (4.92 fi Detect 78.0 m		Recognize	Identify		Carrier Network System	Applicable regions: Europe, Middle East, Africa Power class 3: 23dBm ±2.7dB (-LA): FDD-LTE: B2/B3/B4/B5/B7/B8/B28/B66; Applicable regions: Latn America Power class 3: 23dBm ±2.7dB
	3.6 mm	(255.91	(102.36	(51.18	(25.59		Interoperability	P2P
		ft)	ft)	ft)	ft)		Storage	Micro SD card (support max. 512 GB)
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a						Management Software	DMSS; DSS Pro
							Mobile Client	iOS;Android
	covered a	rea. The nu	umbers in t	his table do			Certification	
Intelligence	not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU		
Intelligence Notes SMD				Port				
Video				USB	1 Type-C Port			
Video Compression	pression H.265				Power			
	Main stream: 2560 × 1440@(1–15 fps)						Power Supply	12 VDC
Video Frame Rate	sub stream: 640 × 360@(1–15 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.							

Power Consumption	Ultra power saving mode: 0.036 W; Power saving mode: 0.047 W; AOV mode: 0.26 W; Performance mode: 1.33 W		
Environment			
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Storage Humidity	≤95% (RH), non-condensing		
Protection	IP67		
Structure			
Casing Material	Plastic		
Product Dimensions	256 mm × 290 mm × 197 mm (10.08" × 11.42" × 7.76") (L × W × H)		
Net Weight	1357 g (2.99 lb)		
Gross Weight	2869 g (6.33 lb)		
Battery			
Operating Temperature	Charging: -30 °C to +60 °C (-22 °F to +140 °F) Discharging: -40 °C to +60 °C (-40 °F to +140 °F)		
Net Weight	550 g (1.21 lb)		
Battery Type	Lithium iron phosphate		
Battery Capacity	64Wh		
Battery Voltage	6.4 V		
Cycle Lifetime	Ultra power saving mode (no-trigger recording): 76 days Power saving mode (30 daily alarms of under 15s each): 56days AOV mode (30 daily alarms of under 15s each): 10 days Performance mode (continuous recording): 2 days		
Battery Life	More than 1,000 cycles		
Solar Module			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Product Dimensions	285 mm × 235 mm × 2.5 mm (11.22" × 9.25" × 0.1") (L × W × H)		
Max. Power	10.5 W		
Cell Type	Monocrystalline silicon		

Ordering Information				
Туре	Model	Description		
IP CAMERA	DH-IPC-HFW2441DG-4G- SP-B-MAX	4MP Smart Dual Light Fixed-focal Bullet 4G Solar Power Network Camera		
	DH-PFA162	Universal Joint		
	DH-PFA150	Pole Mount Bracket		
Accessories (Optional)	G3416GW	G3/4" Water Joint		
	DH-PFA121	Water-proof Junction Box		
	DH-PFA152-E	Pole Mount Bracket		

Туре	Model	Description
Accessories (Optional)	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-C100/512GB	MicroSD Card
	DHI-TF-P100/512GB	MicroSD Card

Accessories

Optional:



Water-proof Junction Box





DH-PFA150 Pole Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFA162 Universal Joint



DH-PFM320D-EN DC12V2A power adapter



DHI-TF-C100/512GB MicroSD Card



DHI-TF-P100/512GB MicroSD Card



G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester

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

Dimensions (mm[inch])

