

# 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 wide-temperature 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.

# Wireless Series | DH-IPC-HFW2441DG-4G-SP-B-MAX

## Technical Specification

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Camera					
Image Sensor	1/3" CMOS	5			
Max. Resolution	2560 (H) × 1440 (V)				
ROM	128 MB	128 MB			
RAM	128 MB	128 MB			
Scanning System	Progressive	Progressive			
Electronic Shutter Speed	Auto/Man	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio	>40 dB				
Illumination Distance		3.6 mm: Up to 30 m (98.43 ft) (IR) Up to 20 m (65.62 ft) (Warm light)			
Illuminator On/Off Control	Auto;Manu	Auto;Manual			
Illuminator Number	1 (IR LED);	1 (IR LED); 1 (Warm light)			
Angle Adjustment	Pan: 0° to 360° Tilt: -60 °to 0° Rotation: 0° to 360°				
Lens					
Lens Type	Fixed-focal	Fixed-focal			
Lens Mount	M12	M12			
Focal Length	3.6 mm				
Max. Aperture	F1.6				
Field of View	3.6 mm: H: 78.4°; V: 42.4°; D: 92.4°				
Iris Control	Fixed				
Close Focus Distance	3.6 mm: 1.5 m (4.92 ft)				
	Lens	Detect	Observe	Recogniz e	Identify
	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)
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 covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				
Intelligence					
Intelligence Notes	SMD				
Video					
Video Compression	H.265	H.265			
Video Frame Rate	Main stream: 2560 × 1440@(1–15 fps) 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.				

Strooming Conshillt	2 strams
Streaming Capability	2 streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Bit Rate	H.265: 32 kbps-4096 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Smart Dual Light	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes, built-in Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	G.711a
Alarm	
Alarm Event	SD card error; SD card full; motion detection; PIR alarm; low battery alarm
Network	
Network Port	RJ-45 (10/100 Base-T)
Carrier Network System	FDD-LTE: B1/B3/B5/B7/B8/B20/B28; Applicable regions: Europe, Middle East, Africa Power class 3: 23dBm ±2.7dB FDD-LTE: B2/B3/B4/B5/B7/B8/B28/B66; Applicable regions: Latin America Power class 3: 23dBm ±2.7dB
SDK and API	Yes
Interoperability	P2P
Storage	Micro SD card (support max. 512 GB)
Management Software	DMSS; DSS Pro
Mobile Client	iOS;Android
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU; CE-RED: Radio Equipment Directve 2014/53/EU;
Port	
USB	1 Type-C Port
Power	
Power Supply	12 VDC

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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**

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

Model	Description
DH-PFM320D-EN	DC12V2A power adapter
PFM900-E	Integrated Mount Tester
DHI-TF-P100/512GB	MicroSD Card

### Accessories

Туре

Optional:



DH-PFA121

Water-proof Junction Box



DH-PFA150

Pole Mount Bracket

DH-PFM320D-EN

DC12V2A power adapter



DH-PFA152-E Pole Mount Bracket



DHI-TF-P100/512GB MicroSD Card



DH-PFA162

Universal Joint

G3416GW G3/4" Water Joint

PFM900-E Integrated Mount Tester



### Dimensions (mm[inch])



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