

# DH-IPC-HFW2431DG-4G-SP-EAU-B

4MP IR Fixed-focal Bullet 4G Solar Power Network Camera



### **System Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

## **Functions**

#### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### 4G

With a built-in high-performance 4G mobile network module, the camera can be directly registered to cloud platforms after a 4G SIM card has been inserted into it. It can be installed anywhere without the hassle of network cables. Users can perform real-time monitoring and remote control of the camera from a mobile client through 4G network.

#### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in warm light/IR LED.
- 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.
- Built-in 8 GB eMMC memory chip that protects key records from being lost
- Supports solar power, making it ideal for use in locations that have exposure to sunlight.
- Standalone with built-in solar panel and battery, battery cycle life can last up to 10 days at the rate of 1-hour remote live view per day.
- Abnormality detection: Motion detection, video tampering, audio detection, SD card full, SD card error, network disconnection, IP conflict and illegal access.
- Supports max. 256 G Micro SD card; built in MIC and speaker; support two-way talk.
- IP67 protection.













#### Protection (IP67)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

## **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.

Technical Specification		May Amorty	Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6			
Camera		Max. Apertu						
Image Sensor	1/3" CMOS	Field of View		2.8 mm: H: 102°; V: 54°; D:121° 3.6 mm: H: 84°; V: 42°; D:101°				
Max. Resolution	2688 (H) × 1520 (V)	Field of View		6 mm: H: 52°; V: 48°; D:61°				
ROM	128MB	Iris Control		Fixed				
RAM	256MB	Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.7 m (5.58 ft)				
Scanning System	Progressive			6 mm: 3.2 m (10.50 ft)				
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		Lens	Detect 63.6 m	Observe 25.4 m	Recognize 12.7 m	Identify 6.4 m	
Min. Illumination	0.01 Lux@F1.6 (Color,30IRE) 0.001 Lux@F1.6 (B/W,30IRE) 0 lux (Illuminator on)	DORI Distance	2.8 mm 3.6 mm	(208.66 ft) 85.4 m	(83.33 ft) 34.2 m	(41.67 ft) 17.1 m	(21.00 ft) 8.5 m	
S/N Ratio	>56 dB		0.0	(280.18 ft) 124.0 m	(112.20 ft) 49.6m	(56.10 ft) 24.8m	(27.89 ft) 12.4m	
Illumination Distance	IR: 50 m (164.04 ft) Warm light: 30 m (98.43 ft)	Video	6 mm	(406.82 ft)	(162.73 ft)	(81.36 ft)	(40.68 ft)	
Illuminator On/Off Control	Auto;Manual			H.265: H.264	: H.264H: H.26	4B: MJPFG (On	ly supported	
Illuminator Number	1 (IR LED); 1 (Warm light)	Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			
Built-in Battery	Support 10000 mAh rechargeable lithium battery	Video Frame Rate		Main stream: 2688 × 1520 @(1–25/30 fps ) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)				
PIR Sensor Distance	10 m (the height of device is 2.5 m, placed horizontally) 5 m (the height of the device is 2 m, placed at an angle of 30° from the horizontal)	Stream Capability		2 streams				
Battery	,	Resolution		4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960 ); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF				
Battery Type	Lithium-ion			(352 × 288/352 × 240)				
Capacity	10 Ah	Bit Rate Control		CBR/VBR				
Max. Charging Voltage	4.2 V	Video Bit Rate		H.264: 32 kbps-6144 kbps H.265: 32 kbps-6144 kbps				
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F) Charging Condition: 0 °C to +50 °C (+32 °F to +122 °F) (deviation: ± 5 °C)	Day/Night		Auto(ICR)/Color/B/W				
	Discharging Condition:-20 °C to +60 °C (-4 °F to +140 °F) (deviation: $\pm$ 5 °C)	BLC	BLC		Yes			
Battery Voltage	3.0 V to 4.2 V	HLC		Yes				
	General Mode: 1 day	WDR		120 dB				
Cycle Lifetime	Sleep Mode:10 days (at the rate of 1-hour remote live view per day)  Scene Self-adaptation (SSA)		daptation	Yes				
Battery Life	More than 500 cycles	White Balance		Auto; natural; street lamp; outdoor; manual; regional custom				
Battery Weight	Approx. 190 g (0.42 lb)	Gain Control	Gain Control		Auto			
Solar Module		Noise Reduction		3D NR				
Maximum Power	5 W	Motion Dete	Motion Detection		OFF/ON (4 areas, rectangular)			
Cell type	Monocrystalline	Region of Int	Region of Interest (RoI)		Yes (4 areas)			
Operating Temperature	-40 °C to +80 °C (-40 °F to +176 °F)	Smart Illumination		Yes				
Dimensions	230 mm × 150 mm × 2 mm (9.1" × 5.9" × 0.1") (L × W × H)	Mirror		Yes				
Standard testing condition								
Lens		Audio		Voc				
Lens Type	Fixed-focal		Built-in MIC		Yes			
Lens Mount	M12		Built-in Speaker		Yes			
Focal Length	2.8 mm; 3.6 mm; 6 mm	Audio Compression		G.711a;G.711Mu; G.726; PCM				

Alarm						
Alarm Event	SD card error; SD card full; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; PIR alarm; low battery alarm; light alarm; sound alarm					
Network						
Network Port	RJ-45 (10/100 Base-T)					
Frequency	LTE FDD:B1/3/5/7/8/20/28 LTE TDD:B38/40/41 WCDMA:B1/5/8 GSM/GPRS/EDGE:B3/5/8					
SDK and API	Yes					
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade					
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP					
Interoperability	ONVIF (Profile S/Profile G); CGI; P2P					
User/Host	20 (Total bandwidth: 80 M)					
Storage	Bulit in eMMC (8 GB); FTP;SFTP; Micro SD card (support max. 256 GB); NAS					
Browser	IE: IE8,9,11 Chrome Firefox					
Management Software	DSS; DMSS					
Mobile Client	iOS; Android					
Certification						
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU; FCC: 47 CFR FCC Part 15; Subpart B					
Port						
USB	1 Micro USB Port					
Power						
Power Supply	MicroUSB/5 VDC					
Power Consumption	Sleep Mode: 0.03 W General Mode: 2.1 W Max. (4G pulling stream+IR+speaker+warning light): 4 W					
Environment						
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)					
Operating Humidity	≤ 95%					
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)					
Protection	IP67					
Structure						
Casing	Metal + plastic					
Product Dimensions	247 mm × 219 mm×179 mm (9.72" × 8.62" × 7.05")					
	$(L \times W \times H)$					

Packaging Dimensions	238 mm×181 mm×296 mm (9.37"×7.13"×11.65") (L × W × H)
Net Weight	1250 g (2.80 lb)
Gross Weight	1610 g (3.50 lb)

Ordering Information					
Туре	Model	Description			
4MP Camera	DH-IPC-HFW2431DGP-4G- SP-NL668EAU-B-0280B	4MP IR Fixed-focal Bullet 4G Solar Power Network Camera			
	DH-IPC-HFW2431DGP-4G- SP-NL668EAU-B-0360B	4MP IR Fixed-focal Bullet 4G Solar Power Network Camera			
	DH-IPC-HFW2431DGP-4G- SP-NL668EAU-B-0600B	4MP IR Fixed-focal Bullet 4G Solar Power Network Camera			
	PFB121W	Wall Mount Bracket			
	PFA162	Pole Mount Bracket			
	PFA150	Pole Mount Bracket			
Accessories	PFA121	Pole Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

## Accessories

# Included:



PFB121W Wall Mount Bracket

# Optional:







PFA150 Pole Mount Bracket



50 PFA121 ount Pole Mount et Bracket



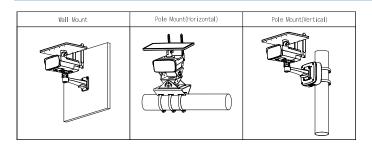
PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

