

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. Please test the local

 4G network with the camera before use.
- 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		
Camera		
Image Sensor	1/3" CMOS	
Max. Resolution	2688 (H) × 1520 (V)	
ROM	128MB	
RAM	256MB	
Scanning System	Progressive	
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	
Min. Illumination	0.01 Lux@F1.6 (Color,30IRE) 0.001 Lux@F1.6 (B/W,30IRE) 0 lux (Illuminator on)	
S/N Ratio	>56 dB	
Illumination Distance	IR: 50 m (164.04 ft) Warm light: 30 m (98.43 ft)	
Illuminator On/Off Control	Auto;Manual	
Illuminator Number	1 (IR LED); 1 (Warm light)	
Angle Adjustment	Pan: 0°–360° Tilt: –60°–0° Rotation: 0°–360°	
Built-in Battery	Support 10000 mAh rechargeable lithium battery	
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)	
Battery		
Battery Type	Lithium-ion	
Capacity	10 Ah	
Max. Charging Voltage	4.2 V	
Operating Temperature	0 °C to +45 °C (32 °F to +113 °F)	
Battery Voltage	3.0 V to 4.2 V	
Cycle Lifetime	Sleep Mode(Recommend): About 10 days (at the rate of 1-hour remote live view per day) General Mode: About 15 hours(when the battery is fully charged)	
Battery Life	More than 500 cycles	
Battery Weight	Approx. 190 g (0.42 lb)	
Solar Module		
Maximum Power	5 W	
Cell type	Monocrystalline	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Dimensions	230 mm × 150 mm × 2 mm (9.1" × 5.9" × 0.1") (L × W × H)	
Standard testing condition	AM = 1.5, 25 °C (77 °F), 1000 W/m², SMQ + 12%	
Lens		
Lens Type	Fixed-focal	
Lens Mount	M12	
Focal Length	2.8 mm; 3.6 mm; 6 mm	

Max. Apertu	re	2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6			
Field of View		2.8 mm: H: 102°; V: 54°; D:121° 3.6 mm: H: 84°; V: 42°; D:101° 6 mm: H: 52°; V: 48°; D:61°			
Iris Control		Fixed			
Close Focus I	Distance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
DORI Distance	6 mm	124.0 m (406.82 ft)	49.6m (162.73 ft)	24.8m (81.36 ft)	12.4m (40.68 ft)
*DORI (Detect, Observe, Recognize, Identify) is a stand (EN-62676-4) for defining the ability of a person view video to distinguish persons or objects within a covery. The numbers in this table do not reflect intelligent fur distances. For intelligent function distances, refer to it and commissioning manual/project design tool.			son viewing the n a covered are lligent function refer to installa	ra.	

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Video Frame Rate	Main stream: 2688 × 1520 @(1–25/30 fps) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
Stream Capability	2 streams
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 (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Mirror	Yes

Lite Series | DH-IPC-HFW2431DG-4G-SP-EAU-B

Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Built-in Speaker	Yes
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	4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G: WCDMA: B1/5/8 Applicable regions: Europe, Asia-Pacific, Africa 2G: GSM/GPRS/EDGE: B3/5/8 Applicable regions: Europe, Asia-Pacific, Africa
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; P2P
Interoperability	ONVIF (Profile S/Profile G); CGI
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: 2.6 W Max. (4G pulling stream+IR+speaker+warning light): 4.9 W
Power Adapter	5 VDC, 2 A
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Charging Cable	Insulation Resistance≥20MΩ;Conductor Resistance≤3Ω
Environment	
Operating Temperature	0 °C to +45 °C (32 °F to +113 °F)
Operating Humidity	≤ 95%
Storage Temperature	0 °C to +45 °C (32 °F to +113 °F)
Protection	IP67
Structure	
Casing	Metal + plastic

	Casing	Metal + plastic
Packaging Dimensions (L × W × H)	Product Dimensions	,
Net Weight 1250 g (2.80 lb)	Packaging Dimensions	,
	Net Weight	1250 g (2.80 lb)
Gross Weight 1610 g (3.50 lb)	Gross Weight	1610 g (3.50 lb)

Ordering Information		
Туре	Model	Description
	DH-IPC-HFW2431DGP-4G- SP-NL668EAU-B-0280B	4MP IR Fixed-focal Bullet 4G Solar Power Network Camera
4MP 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	Universal Joint
	PFA150	Pole Mount Bracket
Accessories	PFA121	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Included:



PFB121W Wall Mount Bracket

Optional:



PFA162 Universal Joint



PFA152-E Pole Mount Bracket



PFA150 Pole Mount Bracket



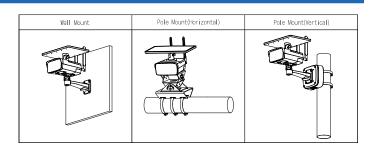
PFM900-E Integrated Mount Tester



PFA121 Water-proof Junction Box



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

