

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 Anashura		2.8 mm: F1.6			
Camera	amera Max. Aperture		3.6 mm: F1.6 6 mm: F1.6					
Image Sensor	1/3" CMOS				2.8 mm: H: 102°; V: 54°; D:121°			
Max. Resolution	2688 (H) × 1520 (V)	Field of View		3.6 mm: H: 84°; V: 42°; D:101° 6 mm: H: 52°; V: 48°; D:61°				
ROM	128MB	Iris Control	Iris Control		Fixed			
RAM	256MB			2.8 mm: 0.9 m (2.95 ft)				
Scanning System	Progressive	Close Focus Distance		3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft)				
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		Lens	Detect	Observe	Recognize	Identify	
Min. Illumination	0.01 Lux@F1.6 (Color,30IRE) 0.001 Lux@F1.6 (B/W,30IRE) 0 lux (Illuminator on)	DORI	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)	
S/N Ratio	>56 dB	Distance	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)	
Illumination Distance	IR: 50 m (164.04 ft) Warm light: 30 m (98.43 ft)		6 mm	124.0 m (406.82 ft)	49.6m (162.73 ft)	24.8m (81.36 ft)	12.4m (40.68 ft)	
Illuminator On/Off Control	Auto;Manual	Video						
Illuminator Number	1 (IR LED); 1 (Warm light)	Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported			
Angle Adjustment	Pan: 0°–360° Tilt: -60°–0° Rotation: 0°–360°				by the sub stream) Main stream: 2688 × 1520 @(1–25/30 fps)			
Built-in Battery	Support 10000 mAh rechargeable lithium battery	Video Frame	e Kate	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	Resolution		4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280			
Battery Type	Lithium-ion			× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				
Capacity	10 Ah	Bit Rate Con	Bit Rate Control		CBR/VBR			
Max. Charging Voltage	4.2 V	Video Bit Ra	Video Bit Rate		H.264: 32 kbps-8192 kbps			
Operating Temperature	0 °C to +50 °C (+32 °F to +122 °F)	video bie na	video Biť Kate		H.265: 32 kbps-8192 kbps			
Battery Voltage	3.0 V to 4.2 V	Day/Night	Day/Night		Auto(ICR)/Color/B/W			
Cools Lifetims	General Mode: 15 hours(when the battery is fully charged)	BLC	BLC HLC		Yes			
Cycle Lifetime	Sleep Mode: 10 days (at the rate of 1-hour remote live view per day)	HLC			Yes			
Battery Life	More than 500 cycles	WDR			120 dB			
Battery Weight	Approx. 190 g (0.42 lb)	(SSA)	Scene Self-adaptation (SSA)		Yes			
Solar Module		White Balan	White Balance		Auto; natural; street lamp; outdoor; manual; regional custom			
Maximum Power	5 W	Gain Contro	Gain Control		Auto			
Cell type	Monocrystalline	Noise Reduc	Noise Reduction		3D NR			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	Motion Dete	Motion Detection		OFF/ON (4 areas, rectangular)			
Dimensions	230 mm × 150 mm × 2 mm (9.1" × 5.9" × 0.1") (L × W × H)	Region of Int	Region of Interest (RoI)		Yes (4 areas)			
Standard testing condition	AM = 1.5, 25 °C (77 °F), 1000 W/m², SMQ + 12%	Smart Illumi	Smart Illumination		Yes			
Lens		Mirror		Yes				
Lens Type	Fixed-focal	Privacy Masl	Privacy Masking		4 areas			
Lens Mount	M12	Audio	Audio					
Focal Length	2.8 mm; 3.6 mm; 6 mm	Built-in MIC		Yes				

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

Audio Compression G.711a;G.711Mu; G.726; PCM Alarm 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) 4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G:	
SD card error; SD card full; IP conflict; illegal access; motion detection; video tampering; audio detection security exception; PIR alarm; low battery alarm; ligh alarm; sound alarm Network Network RJ-45 (10/100 Base-T) 4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G:	
Alarm Event motion detection; video tampering; audio detection security exception; PIR alarm; low battery alarm; ligh alarm; sound alarm Network Network Port RJ-45 (10/100 Base-T) 4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G:	
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4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G:	
FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 Applicable regions: Europe, Asia-Pacific, Africa 3G:	
Frequency 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	
Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truexecution; trusted upgrade	logs;
IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RT Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NT 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 (supplemax. 256 GB); NAS	ort
IE: IE8,9,11 Chrome Firefox	
Management Software DSS; DMSS	
Mobile Client iOS; Android	
Certification	
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	
Sleep Mode: 0.03 W General Mode: 2.6 W Max. (4G pulling stream+IR+speaker+warning light): W	4.9
Environment	
Operating Temperature 0 °C to +50 °C (+32 °F to +122 °F)	
Operating Humidity ≤ 95%	

Storage Temperature	0 °C to +50 °C (+32 °F to +122 °F)		
Protection	IP67		
Structure			
Casing	Metal + plastic		
Product Dimensions	247 mm × 219 mm×179 mm (9.72" × 8.62" × 7.05") (L × W × 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 Sol Power Network Camera				
	DH-IPC-HFW2431DGP-4G- SP-NL668EAU-B-0600B	4MP IR Fixed-focal Bullet 4G Solar Power Network Camera				
Accessories	PFB121W	Wall Mount Bracket				
	PFA162	Universal Joint				
	PFA150	Pole Mount Bracket				
	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



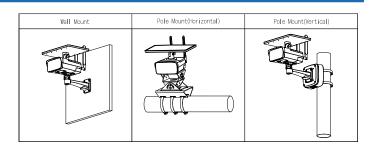
PFM900-E Integrated Mount Tester



PFA121 Water-proof Junction Box



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

