

DH-IPC-HFW2831S-S-S2

8MP Lite IR Fixed-focal Bullet Network Camera



- \cdot 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @15 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps
- · Support Triple Stream
- \cdot H.265 codec, high compression rate, ultra-low bit rate
- \cdot Built-in IR LED, max IR distance: 30 m
- \cdot ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- \cdot Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access,voltage detection
- · Supports max. 256 GB Micro SD card
- · 12V DC/PoE power supply
- · IP67 protection



Series 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 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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.

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.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, wide voltage)

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.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Lite Series | DH-IPC-HFW2831S-S-S2

Technical Specification

Camera

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Image Sensor	1/2.7" 8Megapixel progressive CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.009 Lux@F2.0
S/N Ratio	>56 dB
Illumination Distance	30 m (98.43 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F2.0 F2.0			
Field of View		2.8 mm: Horizontal 105° × Vertical 56° × Diagonal 125° 3.6 mm: Horizontal 87° × Vertical 47° × Diagonal 104°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)
	3.6 mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.6 ft)	10.7 m (35.1 ft)

Smart event

IVS	Tripwire; intrusion
Video	
Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps); 704 × 480 (1 fps–30 fps) Third stream: CIF@1fps
Stream Capability	3 streams

3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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)
CBR/VBR
H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Auto(ICR)/Color/B/W
Yes
Yes
120 dB
Auto/natural/street lamp/outdoor/manual/regional custom
Auto/Manual
3D NR
OFF/ON (4 areas, rectangular)
Yes (4 areas)
Yes
0°/90°/180°/270° (Supports 90°/270° with 3840 \times 2160 resolution and lower.)
Yes
4 areas
No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
RJ-45 (10/100 Base-T)
Yes
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
IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
20
FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
IE Chrome Firefox

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Management Software Smart PSS; DSS; DMSS Mobile Phone IOS; Android Certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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CE-EMC: Electromagnetic Compatibility Directive
Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Power
Power Supply 12V DC/PoE (802.3af)
Power Consumption < 5.5W
Environment
Operating Conditions -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F)/less than $\leq 95\%$ RF
Storage Temperature -40°C to +60°C (-40°F to +140°F)
Protection Grade IP67
Structure
Casing Metal
Dimensions 166.2 mm × Φ70 mm (6.54" × Φ2.76")
Net Weight 0.48 kg (1.1 lb)

Accessories

Optional:



Junction Box

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LR1002-1ET/1EC

Single-port Long Reach Ethernet over

Coax Extender



PFM900-E

Integrated Mount

Tester

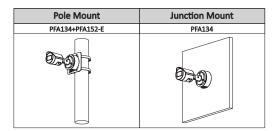
PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter

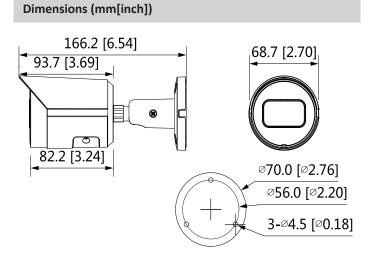


PFM114 TLC SD Card



Ordering Information

Туре	Part Number	Description
8MP Camera	DH-IPC- HFW2831SP-S-S2	8MP Lite IR Fixed-focal Bullet Network Camera,PAL
	DH-IPC- HFW2831SN-S-S2	8MP Lite IR Fixed-focal Bullet Network Camera,NTSC
Accessories (optional)	PFA134	Junction Box
	PFA152-E	Pole Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card



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