

# 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
- · H.265 codec, high compression rate, ultra-low bit rate
- · 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
- · 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							
Camera	peemeation						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 ×
Image Sensor		1/2.7" 8Meg	apixel progres	sive CMOS		Resolution	1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Max. Resolution		3840 (H) × 2160 (V)					576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM							
RAM		256 MB				Bit Rate Control	CBR/VBR
Scanning System		Progressive				Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manua	l 1/3 s–1/100,	000 s		Day/Night	Auto(ICR)/Color/B/W
Min. Illuminat	ion	0.009 Lux@F2.0				BLC	Yes
S/N Ratio		>56 dB				HLC	Yes
Illumination Distance		30 m (98.43 ft)				WDR	120 dB
Illuminator On/Off Control		Auto/Manual				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator Nu	ımber	1 (IR LED)				Gain Control	Auto/Manual
0 /7:1/0		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Noise Reduction	3D NR
Pan/Tilt/Rotat	ion Kange					Motion Detection	OFF/ON (4 areas, rectangular)
Lens						Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal				Smart Illumination	Yes
Mount Type		M12				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 3840 × 2160 resolution and lower.)
Focal Length		2.8 mm 3.6 mm				Mirror	Yes
Max. Aperture		F2.0 F2.0				Privacy Masking	4 areas
		2.8 mm: Horizontal 105° × Vertical 56° × Diagonal 125°				Alarm	
Field of View  Iris Type		3.6 mm: Horizontal 87° × Vertical 47° × Diagonal 104° Fixed				Alarm Event	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
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)				Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI		74.7 m	29.9 m	14.9 m	7.5 m	SDK and API	Yes
Distance	2.8 mm	(245.1 ft) 106.7 m	(98.1 ft) 42.7 m	(48.9 ft) 21.3 m	(24.6 ft) 10.7 m		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security
6	3.6 mm	(350.1 ft)	(140.1 ft)	(69.6 ft)	(35.1 ft)	Cyber Security	logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot;
Smart event							trusted execution; trusted upgrade
IVS		Tripwire; intrusion					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;
Video						Protocol	UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compre	ession	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					ONVIF(Profile S/Profile G/Profile T); CGI; P2P;
Smart Codec		Smart H.265+/ Smart H.264+				Interoperability	Milestone; Genetec
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)				User/Host	20
						Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Browser	IE Chrome
Stream Capability		2 streams					Firefox

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

Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	IOS; Android		
Certification			
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 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°C ( $-40$ °F to +140°F)/less than ≤ 95% RH		
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:





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

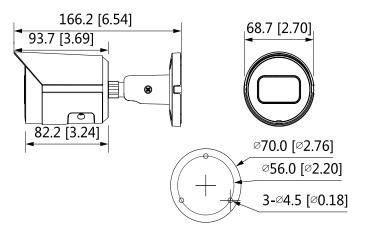
PFM114 TLC SD Card

Pole Mount	Junction Mount		
PFA134+PFA152-E	PFA134		

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

0.57 kg (1.3 lb)

## Dimensions (mm[inch])



Gross Weight