

DH-IPC-HFW2831S-S-S2

8MP Lite IR Fixed-focal Bullet Network Camera



- · 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
- · ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D DNR, 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 support
- · IP67 protection













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 to the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Codec

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

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

IVS

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

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% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×
Camera							2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536);
Image Sensor		1/2.7" 8Meg	apixel progres	ssive CMOS		Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Effective Pixels		3840 (H) × 2160 (V)					576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB				Bit Rate Control	CBR/VBR
RAM	RAM					Video Bit Rate	H.264: 32 Kbps–8192 Kbps
Scanning Syst	Scanning System					Video Bit Rate	H.265: 12 Kbps-8192 Kbps
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Day/Night	Auto(ICR)/Color/B/W
Min. Illuminat	Min. Illumination		2.0			BLC	Yes
IR Distance		30 m (98.43 ft)				HLC	Yes
IR On/Off Cor	ntrol	Auto/Manual				WDR	120 dB
IR LEDs Numb	per	1				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Pan/Tilt/Rota	tion Range	Pan: 0°–360° Tilt: 0°–90°				Gain Control	Auto/Manual
Tany Titty Nota	tion name	Rotation: 0°–360°				Noise Reduction	3D DNR
Lens	Lens					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest(RoI)	Yes (4 areas)
Mount Type		M12				Smart IR	Yes
Focal Length	Focal Length					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Supports $90^\circ/270^\circ$ with 2688×1520 resolution and lower.)
Max. Aperture		F2.0 F2.0				Mirror	Yes
			105° × Tilt 56	°× Diagonal 12	95°	Privacy Masking	4 areas
Field of View	Field of View			× Diagonal 104		Network	
Iris Type	Iris Type					Network	RJ-45 (10/100 Base-T)
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	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)	Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
	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)	User/Host	20
Smart event						Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
General IVS Analytics Video		Tripwire; intrusion				Browser	IE Chrome
Video Compression		H.265; H.264; H.264B; MJPEG					Firefox
Smart Codec		Yes				Management Software	Smart PSS; DSS; DMSS
		Main stream:				Mobile Phone	IOS; Android
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)				Certification Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability		2 streams					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

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

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)	
Gross Weight	0.57 kg (1.3 lb)	

Ordering Information						
Туре	Part Number	Description				
8MP Camera	DH-IPC- HFW2831SP-S-S2	8MP Lite IR Fixed-focal Bullet Network Camera,PAL				
own camera	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				

Accessories

Optional:



PFA134 Junction Box



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



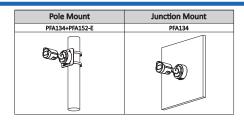
PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 $\mathsf{TLC}\,\mathsf{SD}\,\mathsf{Card}$



Dimensions (mm[inch])

