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



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
- \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.

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Technical Specification							
Camera							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536);
Image Sensor		1/2.7" 8Meg	apixel progres	sive CMOS		Resolution	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	ROM					Dit Data Cantual	con Airo
RAM		256 MB				Bit Rate Control	CBR/VBR H.264: 32 kbps–8192 kbps
Scanning System		Progressive				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	tion	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 O	n/Off Control	Auto/Manual				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator No	umber	1 (IR LED)				Gain Control	Auto/Manual
a tarih ta	Pan/Tilt/Rotation Range					Noise Reduction	3D NR
Pan/Tilt/Rota			-360°			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	$0^\circ/90^\circ/180^\circ/270^\circ$ (Supports $90^\circ/270^\circ$ 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
			izontal 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	2.8 mm	74.7 m	29.9 m	14.9 m	7.5 m	SDK and API	Yes
Distance	3.6 mm	(245.1 ft) 106.7 m (350.1 ft)	(98.1 ft) 42.7 m (140.1 ft)	(48.9 ft) 21.3 m (69.6 ft)	(24.6 ft) 10.7 m (35.1 ft)	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
Smart event					X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
IVS		Tripwire; intr	usion				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video						Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					<u> </u>
Smart Codec		Smart H.265	+/ Smart H.26	4+		Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; 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
Stream Capability		704 × 480 (1 fps–30 fps) 2 streams				Browser	IE Chrome Firefox

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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)		
Gross Weight	0.57 kg (1.3 lb)		

Accessories

Optional:



PFA134

Junction Box

LR1002-1ET/1EC

Single-port Long

Reach Ethernet over

Coax Extender



PFM321D

DC12V1A

PFA152-E Pole Mount

Power Adapter



PFM900-F 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						

