

DH-IPC-HFW2831S-S-S2

8MP Lite IR Fixed-focal Bullet Network Camera

4K HD



- 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 work normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						
Camera						
Image Sensor		1/2.7" 8Megapixel progressive CMOS				
Effective Pixels		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				
IR Distance		30 m (98.43 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		1				
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: Pan 105° × Tilt 56° × Diagonal 125° 3.6 mm: Pan 87° × Tilt 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						
General IVS Analytics		Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG				
Smart Codec		Yes				
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)				
Stream Capability		2 streams				

Resolution	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)	
	Bit Rate Control	CBR/VBR
	Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 12 Kbps–8192 Kbps
	Day/Night	Auto(ICR)/Color/B/W
	BLC	Yes
	HLC	Yes
	WDR	120 dB
	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
	Gain Control	Auto/Manual
	Noise Reduction	3D DNR
	Motion Detection	OFF/ON (4 areas, rectangular)
	Region of Interest(Rol)	Yes (4 areas)
	Smart IR	Yes
	Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)
Mirror	Yes	
Privacy Masking	4 areas	

Network						
Network		RJ-45 (10/100 Base-T)				
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				
Interoperability		ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec				
User/Host		20				
Edge Storage		Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS				
Browser		IE Chrome Firefox				
Management Software		Smart PSS; DSS; DMSS				
Mobile Phone		IOS; Android				

Certification						
Certifications		CE-LVD: EN60950-1 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 × Ø70 mm (6.54" × Ø2.76")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.57 kg (1.3 lb)

Ordering Information

Type	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

Accessories

Optional:



PFA134
Junction Box



PFA152-E
Pole Mount



PFM321D
DC12V1A
Power Adapter



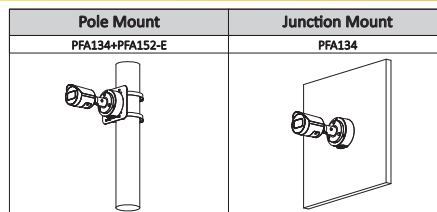
LR1002-1ET/1EC
Single-port Long
Reach Ethernet over
Coax Extender



PFM900-E
Integrated Mount
Tester



PFM114
TLC SD Card



Dimensions (mm[inch])

