Lite Series | DH-IPC-HFW2431S-S-S2



# DH-IPC-HFW2431S-S-S2

4MP Lite IR Fixed-focal Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30fps, Max. supports 4MP (2688 × 1520)@20 fps
- H.265 codec, high compression ration, 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 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 disconnected, 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+

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing 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  $1\,\mathrm{m}$  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.



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Lite Series | DH-IPC-HFW2431S-S-S2

Technical S	Specification						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera		Resolution 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					
Image Sensor	1/3" 4Megapixel progressive CMOS		Dit Data Cantual	·			
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR H.264: 32 kbps-6144 kbps
ROM		128 MB				Video Bit Rate	H.265: 12 kbps-6144 kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Syste	em	Progressive				BLC	Yes
Electronic Shu	tter Speed	Auto/Manual 1/3 s–1/100000 s				HLC	Yes
S/N Ratio		> 56 dB				WDR	120 dB
Min. Illuminati	ion	0.008 Lux@F1.6				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination D	istance	30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator On	/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Nu	Illuminator Number					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens		Notation. 0	-300			Smart Illumination	Yes
Lens Type		Fixed-focal Image Rotation 0°/90°/180°/270° (Supports 90°/270° with 2688 s resolution and lower.)		0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)			
Mount Type		M12				Mirror	Yes
Focal Length						Privacy Masking	4 areas
	rocal Leligtii					Alarm	
Max. Aperture Field of View		F1.6 F1.6 2.8 mm: Horizontal:102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm:				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception
Iris Type		Fixed	4.0° × Vertical	45.0 × Diago	nai 100.0	Network	
		2.8 mm: 0.9 m (2.95 ft)				Network	RJ-45 (10/100 Base-T)
Close Focus Di	stance	3.6 mm: 1.6	. ,			SDK and API	Yes
DORI	Lens	Detect 56 m	Observe 22.4 m	Recognize 11.2 m	Identify 5.6 m		Video encryption; firmware encryption; configuration
Distance	2.8 mm	(183.73 ft)	(73.49 ft)	(36.75 ft)	(18.37 ft)	Cyber Security	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
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		
Smart ever	nt						
IVS	VS Tripwire; intrusion		Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;			
Video							QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Video Compre	ession	H.265; H.264; H.264B; MJPEG(only supported by sub stream)  Interoperability  ONVIF(Profile S/Profile T);CGI Milestone; Genetec		ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec			
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20
		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate						Browser	IE Chrome Firefox
						Management Software	Smart PSS; DSS; DMSS
Stream Capab	ility	2 streams				Mobile Phone	IOS; Android

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## Certification

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	<5W

### Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than $\leq$ 95% RH		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection	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** Part Number Type Description DH-IPC-4MP Lite IR Fixed-focal Bullet Network Camera, HFW2431SP-S-S2 4MP Camera DH-IPC-4MP Lite IR Fixed-focal Bullet Network Camera, HFW2431SN-S-S2 PFA134 Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over Coax LR1002-1ET/1EC PFM900-E Integrated Mount Tester PFM114 TLC SD Card

# Accessories

## Optional:



PFA134 Junction Box



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Pole Mount	Junction Mount		
PFA134+PFA152-E	PFA134		
030)			

### Dimensions (mm[inch])

