

# 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 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						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×
Camera					Resolution		1440); 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
Image Sensor		1/3" 4Megap	1/3" 4Megapixel progressive CMOS				× 240)
Max. Resoluti	ion	2688 (H) × 15	2688 (H) × 1520 (V)			Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps—6144 kbps H.265: 12 kbps—6144 kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Syst	tem	Progressive	Progressive			BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
S/N Ratio		> 56 dB				WDR	120 dB
Min. Illuminat	tion	0.008 Lux@F	1.6			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination D	Distance	30 m (98.43	30 m (98.43 ft)			Gain Control	Auto/Manual
Illuminator O	n/Off Control	Auto/Manua	I			Noise Reduction	3D NR
Illuminator No	umber	1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rota	ation Range	Pan: 0°-360° Tilt: 0°-90°				Region of Interest(RoI)	Yes (4 areas)
Long		Rotation: 0°-	-360			Smart Illumination	Yes
Lens Type		Fixed-focal	Fixed-focal			Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm				Privacy Masking	4 areas
r ocur zengan		3.6 mm F1.6	3.6 mm			Alarm	
Max. Apertur	Max. Aperture Field of View		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		Horizontal 84.0° × Vertical 45.0° × Diagonal 100.0° Fixed			iiai 100.0	Network	
	Nintan an	2.8 mm: 0.9 m (2.95 ft)				Network	RJ-45 (10/100 Base-T)
Close Focus D	ristance	3.6 mm: 1.6	m (3.61 ft)			SDK and API	Yes
	Lens	Detect	Observe	Recognize	Identify		Video encryption; firmware encryption; configuration
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
	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)	cyber security	X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Smart eve	nt						
IVS		Tripwire; intrusion				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
Video				FIOLOCOI		QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)			orted	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20
		Main stream:				Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate		2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)				Browser	IE Chrome Firefox
		704 × 480 (1 fps-30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capab	oility	2 streams				Mobile Phone	IOS; Android

# Certification

	CE-LVD: EN62368-1
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	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 ≤ 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			
Туре	Part Number	Description	
4MP Camera	DH-IPC- HFW2431SP-S-S2	4MP Lite IR Fixed-focal Bullet Network Camera, PAL	
	DH-IPC- HFW2431SN-S-S2	4MP 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



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

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

PFM900-E
Integrated Mount
Tester

Pole Mount	Junction Mount	
PFA134+PFA152-E	PFA134	

# Dimensions (mm[inch])

