

# DH-IPC-HFW2431S-S-S2

4MP WDR IR Bullet Network Camera



### System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

#### Functions

### Smart ( H.265+ & 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.

### Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

### Starlight

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

### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

### 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.

- $\cdot$  4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30fps, Max. supports 4MP (2688 × 1520)@20 fps
- $\cdot$  H.256 coding, high compression ration, low bit rate
- · Built-in IR LED, max IR distance: 30 m
- $\cdot$  ROI, SMART H.264/H.265, flexible coding, applicable to various band-
- width 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 tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection

- · 256 G SD card
- · 12V DC/POE power support
- · IP67 protection grade



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



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

Technical Specification						Stream Capability	Main stream; sub stream
Camera							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 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" CMOS				Resolution	
Effective Pixels		2688 (H) × 1520 (V)				Bit Rate Control	× 240) CBR/VBR
ROM		128 MB					H.264: 32 Kbps-8192 Kbps
RAM		128 MB				Video Bit Rate	H.265: 12 Kbps-8192 Kbps
Scanning System		Progressive				Day/Night	ICR switch
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				BLC	Yes
Min. Illumination		0.01 Lux@F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft) (IR)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR On/Off Control		Auto				Gain Control	Manual/Auto
IR LEDs Numb	IR LEDs Number					Noise Reduction	3D DNR
Pan/Tilt/Rotat	ion Range	Horizonal: 0°–360° Vertical: 0°–90°				Motion Detection	Disable/Enable (4 areas, rectangle)
, ,			–360°			Region of Interest(RoI)	Yes (4 areas)
Lens	Lens					Smart IR	Yes (Adjust by user)
Lens Type	Lens Type					Digital Zoom	16 times
Mount Type		M12 2.8 mm				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
Focal Length	Focal Length					Mirror	Yes
Max. Aperture	Max. Aperture					Privacy Masking	4 areas
			02.0°			Network	
Field of View		Vertical: 55. Diagonal: 12				Network	RJ-45 (10/100 Base-T)
Field of View		3.6 mm : Horizonal: 84.0° Vertical: 45.0° Diagonal: 100.0°				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Iris Type		Fixed				Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)				User/Host	20
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	DMSS cloud; FTP; Micro SD card (256 G); NFS; SAMBA
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)	Browser	IE Google Firefox
	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)	Management Software	Smart PSS; DSS; DMSS
Smart event						Mobile Phone	IOS; Android
General IVS Ar	nalytics	Intrusion; tripwire				Certification	
Video	Video					CE-LVD: EN60950-1	
Video Compression		H.265; H.264; H.264B; MJPEG				Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN
Smart Codec		H.264: Yes H.265: Yes					
Video Frame Rate		50Hz Main stream (2560 × 1440@25 fps); sub stream (704				Power	
			n (2688 × 1520	@20 fps); sub	stream (704 ×	Power Supply	12V DC/POE
		576@20 fps) 60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)				Power Consumption	Basic power consumption: 2.2W (12V DC), 2.7W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 4.2W (12V DC), 5W (POE)

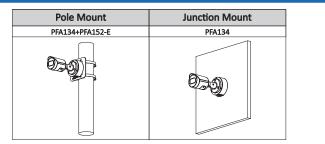
## Lite Series | DH-IPC-HFW2431S-S-S2

### Environment

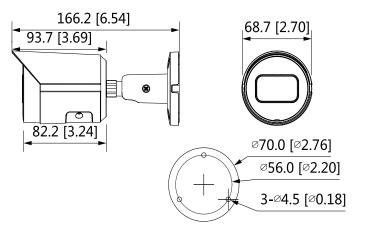
2					
Operating Temperature	-40°C to +60°C (-40°F to +140°F)				
Operating Humidity	≤95%				
Storage Temperature	-30°C to +70°C (-22°F to +158°F)				
Storage Humidity	≤95%				
Protection Grade	IP67				
Structure					
Casing	Metal				
Dimensions	166.2 mm × Φ70 mm (6.54" × Φ2.76")				
Net Weight	0.48 kg (1.06 lb)				
Gross Weight	0.57 kg (1.26 lb)				

### **Ordering Information**

Туре	Part Number	Description		
4MP Camera	DH-IPC- HFW2431SP-S-S2	4MP WDR IR Bullet Network Camera,PAL		
In cumera	DH-IPC- HFW2431SN-S-S2	4MP WDR IR Bullet Network Camera,NTSC		
	PFA134	Junction Box		
	PFA152-E	Pole mount		
	PFM321D	DC12V1A Power adapter		
Accessories	LR1002-1ET/1EC	Single-port long reach ethernet over coax extender		
	PFM900-E	Integrated mount tester		
	PFM114	TLC SD card		



### Dimensions (mm[inch])



### Accessories

#### **Optional:**







LR1002-1ET/1EC Single-port long reach ethernet over coax

extender



PFA152-E Pole Mount



PFM900-E Integrated mount tester



DC12V1A Power adapter



PFM114 TLC SD card



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