

# DH-IPC-HFW2431T-AS-S2

4MP Lite IR Fixed-focal Bullet Network Camera



#### **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 to the standards of IP67 and IK10 (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

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. • 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
• Outputs max. 4MP (2688 × 1520) @20 fps, and supports 2560×1440
(2560 × 1440) @25/30 fps

- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 80 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 ac- cess, local alarm, voltage detection, audio detection

 $\cdot$  Alarm: 1 in, 1 out; audio: 1 in, 1 out (optional) ; supports max. 256 GB Micro SD card

• 12V DC/POE power support supply

· IP67 protection, IK10 protection (optional)



#### 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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-HFW2431T-AS-S2

# **Technical Specification**

Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.008 Lux@F1.6			
S/N Ratio		> 56 dB			
Illumination Distance		80 m (262.5 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		3.6 mm; 6 mm; 8 mm			
Max. Aperture		3.6 mm: F1.6 6 mm: F1.6 8 mm: F1.6			
Field of View		3.6 mm: Horizontal 84° × Vertical 45° × Diagonal 100° 6 mm: Horizontal 52° × Vertical 28° × Diagonal 61° 8 mm: Horizontal 40° × Vertical 23° × Diagonal 45°			
Iris Type		Fixed			
Close Focus Distance		3.6 mm: 1.4 m (4.6 ft) 6 mm: 3.1 m (10.2 ft) 8 mm:4.9 m(16.1 ft)			
	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	80 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
DORI Distance	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)
	8 mm	160.0 m (524.9 ft)	64.0 m (210.0 ft)	32.0 m (105.0 ft)	16.0m (52.5 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by the sub stream)			
Smart Codec		Smart H.265+/ Smart H.264+			

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)

2 streams

Video Frame Rate

Stream Capability

Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 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–6144 kbps H.265: 12 kbps–6144 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 NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 $\times$ 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	N/A		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration 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		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P		
User/Host	20		
Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		

# Lite Series | DH-IPC-HFW2431T-AS-S2

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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: 5mA 3V–5V DC	
Alarm Output	1 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE (802.3af)	
Power Consumption	< 7.7W	
Environment		
Operating Conditions	–40°C to +60°C (–40°F to +140°F)/less than $\leq$ 95% RH	
Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10(optional)	
Structure		
Casing	Metal	
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")	
Net Weight	0.91 kg (2.0 lb)	
Gross Weight	1.16 kg (2.6 lb)	

# **Ordering Information**

Туре	Part Number	Description	
4MP Camera	DH-IPC-HFW2431TP-AS-S2	4MP Lite IR Fixed-focal Bullet Nework Camera,PAL	
	DH-IPC-HFW2431TN-AS-S2	4MP Lite IR Fixed-focal Bullet Nework Camera,NTSC	
Accessories (optional)	PFA130-E	Junction Box	
	PFA152-E	Pole Mount	
	PFM321D	12V DC 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD card	

## Accessories

## **Optional:**



Junction Box

1 in 1

1 in 1





PFA152-E Pole Mount



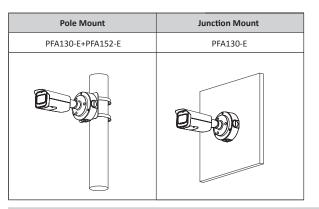


PFM114

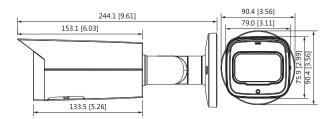
TLC SD Card

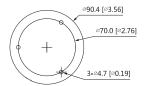
LR1002-1ET/1EC P Single-port Long Integ Reach Ethernet over Coax Extender

PFM900-E Integrated Mount Tester



# Dimensions (mm[inch])





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