

DH-IPC-HFW2431S-S-S2

4MP WDR IR 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 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 disconnected, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67 protection grade



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 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.

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

General IVS Analytics

Video Compression Smart Codec

Video Frame Rate

Stream Capability

Video

Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Effective Pixels		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.008 Lux@F1.6			
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		F1.6 F1.6			
Field of View		2.8 mm: Pan: 102.0° Tilt: 55.0° Diagonal: 121.0° 3.6 mm : Pan: 84.0° Tilt: 45.0° Diagonal: 100.0°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	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 event					

Tripwire; intrusion

Yes

Main stream: 2688 × 1520 (1 fps-20 fps)

Sub stream:

2 stream

H.265; H.264; H.264B; MJPEG

2560 × 1440 (1 fps-25/30 fps)

704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)

Resolution	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 × 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 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 1080p 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	< 5W			
Environment				
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than \leq 95% RH			

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

Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	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 WDR IR Bullet Network Camera, PAL		
	DH-IPC- HFW2431SN-S-S2	4MP WDR IR 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



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



PFA152-E Pole Mount



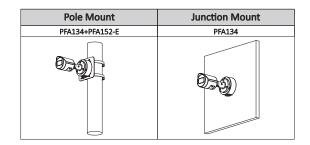
PFM900-E Integrated Mount Tester



DC12V1A Power Adapter



PFM114 TLC SD Card



Rev 001.001 © 2019 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail. Dimensions (mm[inch])
166.2 [6.54]

