

# DH-IPC-HFW2431S-S-S2

4MP WDR IR Bullet Network Camera



- $\cdot$  4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30fps, Max. supports 4MP (2688 × 1520)@20 fps
- 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)

Bit Rate ControlCBR/VBRVideo Bit Rate1,263: 32 Kbps-6144 Kbps 1,265: 12 Kbps-6144 KbpsDay/NightAuto(ICR)/Color/B/WBLCVesBLCVesMDR20 dBMuthe BalanceMuto/Natural/street lamp/outdoor/manual/regional ustomGain ControlAuto/NanualNoise ReductionSPNRMotion DetectionVes (4 areas, rectangular)Morior Interest(RO)Ves (4 areas)MorrorVesMorrorVesNarder MachineVes (4 areas)Mutory MaskingA eff 20 (20 (20 (20 (20 (20 (20 (20 (20 (20	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)			
Video Bit Kate     H.265: 12 Kbps-6144 kbps       Day/Night     Auto(ICR)/Color/B/W       BLC     Yes       BLC     Yes       WDR     120 dB       White Balance     Cuto/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       Smart IR     Yes       Image Rotation     079071807/270' (Supports 907/270* with 1080p resolution and lower.)       Mirror     Yes       Network     Yes       Network     Ref (Jol 100 Base-T)       Network     Ref (Jol 100 Base-T)       Network     Ref (Jol 100 Base-T)       Interoperability     N/YE(Profile S/Profile G/Profile T)CGI; P2P; Milestone; Genetec:       Interoperability     ONVIF(Profile S/Profile G/Profile T)CGI; P2P; Milestone; Genetec:       Management Software     Sach Gig; NAS       Mobile Phone     Iso; Android       Cettifications     CE-VDS: Encoronal strettice Compatibility Directive 2014/30/EU       Cettifications     CE-VDS: Encoronal strettic	Bit Rate Control	CBR/VBR			
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Number of the second	HLC	Yes			
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Edge Storage256 GB); NASBrowserIE Chrome FirefoxManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS; AndroidCertificationCertificationsCertificationsCE-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.60950-1-07Power12V DC/PoE (802.3af)Power Consumption<5W	User/Host	20			
BrowserChrome FirefoxManagement SoftwareSmart PSS; DMSSMobile PhoneIOS; AndroidCertificationCertificationsCertificationsCE-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.60950-1-07PowerPower Supply12V DC/PoE (802.3af)Power Consumption<5W	Edge Storage				
Nobile PhoneIOS; AndroidCertificationIOS; AndroidCertificationsCE-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.60950-1-07Power12V DC/PoE (802.3af)Power Consumption<5W	Browser	Chrome			
Certification   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   12V DC/PoE (802.3af)     Power Consumption   <5W	Management Software	Smart PSS; DSS; DMSS			
CertificationsCE-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.60950-1-07PowerPower Supply12V DC/PoE (802.3af)Power Consumption< SW	Mobile Phone	IOS; Android			
CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07PowerPower Supply12V DC/PoE (802.3af)Power Consumption<5W	Certification				
Power Supply 12V DC/PoE (802.3af)   Power Consumption < 5W	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Power Consumption < 5W	Power				
	Power Supply	12V DC/PoE (802.3af)			
Environment	Power Consumption	< 5W			
	Environment				
Operating Conditions $-40^{\circ}$ C to $+60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ F)/less than $\le 95\%$ RH	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**

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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



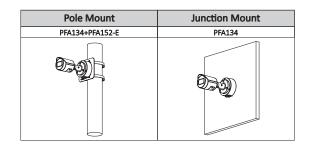
PFM900-E Integrated Mount Tester



DC12V1A Power Adapter



PFM114 TLC SD Card



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# Dimensions (mm[inch]) 166.2 [6.54] 93.7 [3.69]

