

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.



Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/3" 4Megapixel progressive CMOS				Bit Rate Control	CBR/VBR
Effective Pixels		2688 (H) × 1520 (V)				Video Bit Rate	H.264: 32 Kbps–6144 Kbps
ROM		128 MB					H.265: 12 Kbps–6144 Kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illuminat	ion	0.01 Lux@F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR On/Off Con	IR On/Off Control		al			Gain Control	Auto/Manual
IR LEDs Numb	IR LEDs Number					Noise Reduction	3D DNR
Pan/Tilt/Rotation Range		Horizonal: 0 Vertical: 0°—	·90°			Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°-	–360°			Region of Interest(RoI)	Yes (4 areas)
Lens						Smart IR	Yes
Lens Type Mount Type		Fixed M12				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
Focal Length		2.8 mm				Mirror	Yes
. Saar Length		3.6 mm F1.6				Privacy Masking	4 areas
Max. Aperture		F1.6				Network	
Field of View		2.8 mm: Horizonal: 1				Network	RJ-45 (10/100 Base-T)
		Vertical: 55. Diagonal: 12 3.6 mm : Horizonal: 8 Vertical: 45.	21.0° 4.0° 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 Tyne		Diagonal: 100.0° Fixed aperture				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Iris Type		2.8 mm: 0.9 m (2.95 ft)				User/Host	20
Close Focus Distance		3.6 mm: 1.6 m (3.61 ft)				Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NAS
DORI	Lens 2.8 mm	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m	Browser	IE Chrome Firefox
Distance		(183.73 ft) 80 m	(73.49 ft) 32.0 m	(36.75 ft) 16.0 m	(18.37 ft) 8.0 m	Management Software	Smart PSS; DSS; DMSS
	3.6 mm	(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)	Mobile Phone	IOS; Android
Smart ever						Certification	
General IVS A	nalytics	Intrusion; tripwire				cer amount	CE-LVD: EN60950-1
Video						Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Video Compression Smart Codec		H.265; H.264; H.264B; MJPEG Yes					FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Coucc						Power	
Video Frame Rate			n:) (1 fps-20 fps)) (1 fps-25/30 f	ps)		Power Supply	12V DC/PoE (802.3af)
		Sub stream: 704 × 576 (1		. ,		Power Consumption	< 5W
		704 × 480 (1 fps-30 fps)				Environment	
Stream Capability		2 stream				Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%

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				
4ivii Camera	DH-IPC- HFW2431SN-S-S2	4MP WDR IR 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



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA134+PFA152-E	PFA134





