

DH-IPC-HFW2431S-S-S2-DG

4MP Lite IR Fixed-focal 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 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67 protection













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 with the standards of IP67 (Supported by some select models).

Functions

Smart H.265+ & Smart 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.

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

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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, 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 $1\,\mathrm{m}$ 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 ×
Camera						Resolution	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" 4Megapixel progressive CMOS					× 240)
Max. Resolutio	Max. Resolution		520 (V)			Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps–6144 kbps 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
S/N Ratio		> 56 dB				WDR	120 dB
Min. Illumination		0.008 Lux@F1.6				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Distance		30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator On	/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Nu	Illuminator Number					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotat	Pan/Tilt/Rotation Range					Region of Interest(RoI)	Yes (4 areas)
1			-360°			Smart Illumination	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)
Mount Type		M12				Mirror	Yes
						Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm F1.6				Alarm	
Max. Aperture	Max. Aperture						No SD card; SD card full; SD card error; network
Field of View		2.8 mm: Horizontal:102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm: Horizontal 84.0° × Vertical 45.0° × Diagonal 100.0°				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception
Iris Type		Fixed		Ü		Network	
Close Focus Distance		2.8 mm: 0.9				Network	RJ-45 (10/100 Base-T)
	Lens	3.6 mm: 1.6 Detect	m (3.61 ft) Observe	Recognize	Identify	SDK and API	Yes
DORI	2.8 mm	56 m	22.4 m	11.2 m	5.6 m		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
Distance		(183.73 ft) 80 m	(73.49 ft) 32.0 m	(36.75 ft) 16.0 m	(18.37 ft) 8.0 m	Cyber Security	
	3.6 mm	(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)		
	Smart event					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
IVS		Tripwire; intrusion					
Video							
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20
Video Frame Rate		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)				Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
						Browser	IE Chrome Firefox
						Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				Mobile Phone	IOS; Android

Certification

	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive	
Certifications	2014/30/EU	
	FCC: 47 CFR FCC Part 15, Subpart B	
	LIL/CLIL·LIL60950-1 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
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection	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 Part Number Description Type DH-IPC-4MP Lite IR Fixed-focal Bullet Network Camera, HFW2431SP-S-S2 4MP Camera DH-IPC-4MP Lite IR Fixed-focal Bullet Network Camera, HFW2431SN-S-S2 NTSC Junction Box PFA134 PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over Coax LR1002-1ET/1EC Integrated Mount Tester PFM900-E PFM114 TLC SD Card

Accessories

Optional:



PFA134 Junction Box



PFA152-E Pole Mount



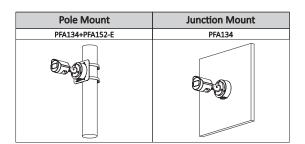
PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

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





Dimensions (mm[inch])

