

DH-IPC-HFW1431S-S-S2

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.

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 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.



Stream Capability

2 streams

Technical S	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					
Max. Resolution		2688 (H) × 1520 (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 Syste	em	Progressive				BLC	Yes
Electronic Shu	tter Speed	Auto/Manual 1/3 s–1/100000 s				HLC	Yes
S/N Ratio		> 56 dB				WDR	120 dB
Min. Illuminat	ion	0.008 Lux@F2.0				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination D	istance	30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator On	/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Nu	ımber	1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Region of Interest(RoI)	Yes (4 areas)
Lens		Rotation: 0°–360°				Smart Illumination	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm				Privacy Masking	4 areas
i ocur Length		3.6 mm F2.0				Alarm	
Max. Aperture Field of View		F2.0 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	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception
Iris Type		Fixed				Network	
Close Focus Di	Close Focus Distance		m (2.95 ft)			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 Distance	2.8 mm	56 m (183.73 ft) 80 m	22.4 m (73.49 ft) 32.0 m	11.2 m (36.75 ft) 16.0 m	5.6 m (18.37 ft) 8.0 m	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;
	3.6 mm	(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)		trusted execution; trusted upgrade IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
Video		H 265: H 26/	1· H 264B· MID	PEG(only supp	orted	Protocol	Qos; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
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		n: (1 fps-20 fps)			Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame F			(1 fps-25/30 f fps-25 fps)	ps)		Browser	IE Chrome Firefox
		704 × 480 (1 fps-30 fps)				Management Software	Smart PSS; DSS; DMSS

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, HFW1431SP-S-S2 4MP Camera DH-IPC-4MP Lite IR Fixed-focal Bullet Network Camera, HFW1431SN-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



Pole Mount



DC12V1A Power Adapter



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

Coax Extende



PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA134+PFA152-E	PFA134

Dimensions (mm[inch])

