

DH-IPC-HFW2431T-ZS-S2

4MP Lite IR Vari-focal Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520)@20 fps
- •H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 60 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, IK10 protection (optional)













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 and IK10 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces 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 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W
Effective Pixels		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s						custom
Min. Illumination		0.008 Lux@F1.5					Gain Control	Auto/Manual
S/N Ratio		>56 dB					Noise Reduction	3D DNR
Illumination Distance		60 m (196.85 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/C	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Num	ber	4 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotatio	n Rango	Pan: 0°–360° Tilt: 0°–90°					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution and lower.)
Pan/Tilt/Rotation Range		Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Alarm	
Mount Type		ф14						No SD card; SD card full; SD card error; network
Focal Length Max. Aperture		2.7 mm-13.5 mm F1.5					Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
Field of View		Horizontal: 104°–27° Vertical: 55°–15°					Network	
Life Town		Diagonal: 124°–31°					Network	RJ-45 (10/100 Base-T)
Iris Type Close Focus Distance		Fixed					SDK and API	Yes
Close Focus Dista		0.8 m-0.8 m (2.62 ft-2.62 ft)					Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;	
DORI Distance	Lens W	Detect 64 m (209.97 ft)	Observe 25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
	Т	220 m (721.78 ft)	88 m	44 m	22 m			IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Smart Event			(288.71 ft)	(144.36 ft)	(72.18 ft)		Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
IVS	IVS		usion				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
Video								Genetec
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					User/Host	20
Smart Codec		Smart H.265+/ Smart H.264+					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream:					Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Mobile Phone	IOS; Android
Stream Capability		2 streams					Certification	
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)					Certifications	CE-LVD: EN62368-1 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
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Lite Series | DH-IPC-HFW2431T-ZS-S2

Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 9.6W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		

IP67;IK10(optional)

Protection Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Ordering Information						
Туре	Part Number	Description				
4MP	DH-IPC-HFW2431TP-ZS-S2	4MP Lite IR Vari-focal Bullet Network Camera,PAL				
Camera	DH-IPC-HFW2431TN-ZS-S2	4MP Lite IR Vari-focal Bullet Network Camera,NTSC				
	PFA130-E	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:



PFA130-E Junction Box



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



PFA152-E Pole Mount



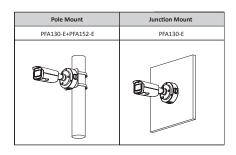
PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card



Dimensions (mm[inch])

