

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.



Clectronic Shutter Speed	Technical Sp	ecificatio	on					Bit Rate Control	CBR/VBR
The part 1,2" Melapapee progressive CMOS	Camera							Video Bit Rate	
RAM	Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	
Max	Effective Pixels		2688 (H) × 1520 (V)					BLC	Yes
More 120 of More 120 o	ROM		128 MB					HLC	Yes
Flectronic Shutter Speed	RAM		128 MB					WDR	120 dB
Min. Illumination 0.008 Luc@F1.5	Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Min. Min. Min. Min. min.	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	
Motion Detection OFF/ON (4 areas, rectangular)	Min. Illumination		0.008 Lux@F1.5						
Illumination Distance 60 mt (19.6.8 st t) Region of Interest(Rol) Yes (4 areas)	S/N Ratio		>56 dB						
Illuminator On/Off Control	Illumination Distance		60 m (196.85 ft)						
Illuminator Number	Illuminator On/Off Control		Auto/Manual						
Pan/Tilt/Rotation Range	Illuminator Num	ber	4 (IR LED)						0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520
Lens Type	Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		2608				_	,
Mount Type	Lens		Rotation: 0°–360°						
Mount Type	Lens Type		Motorized vari-focal						4 areas
Alarm Event	Mount Type		ф14					Alarm	
Max. Aperture	Focal Length		2.7 mm-13.5 mm					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
Field of View Vertical: 55*-15* Diagonal: 124*-31* Iris Type Fixed Close Focus Distance 0.8 m-0.8 m (2.62 ft-2.62 ft) Lens Detect Doserve Recognize Itens Doserve Interoperability Doserve Detect Doserve Recognize Interoperability Doserve Detect Doserve Recognize Interoperability Doserve Doserve Recognize Interoperability Doserve Doserve Doserve Doserve Recognize Interoperability Doserve Dose	Max. Aperture		F1.5						
Network RJ-45 (10/100 Base-T)	Field of View		Vertical: 55°–15°					Network	
Close Focus Distance Detect	Iris Type	Iris Type						Network	RJ-45 (10/100 Base-T)
DORI Distance Lens Detect Observe Recognize Identify								SDK and API	Yes
DORI Distance		Lens	Detect	Observe	Recognize	Identify			Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Smart Event IVS Tripwire; intrusion Video Video Compression Smart Lodge Smart	DORI Distance	W						Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Smart Event IVS Tripwire; intrusion Video Video Compression Smart Lodec Main stream: 2688 x 1520 (1 fps-20 fps) Video Frame Rate Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QNTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonji Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; IGENETICAL Genetec User/Host 20 Storage FTP; Micro SD card (support max. 256 G); NAS; Browser IE Chrome Firefox Video Frame Rate Video Frame Rate Management Software Smart PSS; DSS; DMSS		Т							IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video Compression Wideo Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Main stream: 2688 × 1520 (1 fps-20 fps) Video Frame Rate Video Frame Rate Interoperability User/Host Storage FTP; Micro SD card (support max. 256 G); NAS; Browser Chrome Firefox Management Software Smart PSS; DSS; DMSS	Smart Event							Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
VideoVideo CompressionH.265; H.264; H.264B; MJPEG (only supported by the sub stream)User/Host20Smart CodecSmart H.265+/ Smart H.264+StorageFTP; Micro SD card (support max. 256 G); NAS;Main stream: 2688 × 1520 (1 fps-20 fps)BrowserChrome FirefoxVideo Frame Rate2560 × 1440 (1 fps-25/30 fps) Sub stream:Management SoftwareSmart PSS; DSS; DMSS	IVS		Tripwire; intrusion					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Storage FTP; Micro SD card (support max. 256 G); NAS; Storage FTP; Micro SD card (support max. 256 G); NAS; IE Chrome Firefox Video Frame Rate Video Frame Rate Video Frame Rate Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: Management Software Smart PSS; DSS; DMSS	Video							User/Host	
Smart Codec Smart H.265+/ Smart H.264+ IE Main stream: 2688 × 1520 (1 fps-20 fps) Chrome Firefox Video Frame Rate 2560 × 1440 (1 fps-25/30 fps) Sub stream: Management Software Smart PSS; DSS; DMSS	Video Compression								
Main stream: Browser Chrome Firefox 2688 × 1520 (1 fps-20 fps) 560 × 1440 (1 fps-25/30 fps) Management Software Smart PSS; DSS; DMSS	Smart Codec		Smart H.265+/ Smart H.264+					Storage	
Video Frame Rate Sub stream: Sub stream: Sub stream: Sub stream:			2688 × 1520 (1 fps-20 fps)					Browser	Chrome
704 570 (4 6 05 6)	Video Frame Rate		Sub stream:					Management Software	Smart PSS; DSS; DMSS
7.04 × 5.76 (1 rps-25 rps) 7.04 × 480 (1 fps-30 fps) Mobile Phone IOS; Android			704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Mobile Phone	IOS; Android
Stream Capability 2 streams Certification	Stream Capability		2 streams					Certification	
Resolution 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × FCC: 47 CFR FCC Part 15, Subpart B	Resolution		2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

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 ≤ 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



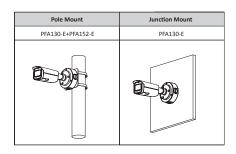
PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card



Dimensions (mm[inch])

