

# DH-IPC-HFW2431T-ZAS-S2

4MP Lite IR Vari-focal Bullet Network Camera



- $\cdot$  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, local alarm, voltage detection, audio abnormal
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; 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 Sp	ecificatio	on					Bit Rate Control	CBR/VBR
Camera				Video Bit Rate	H.264: 32 kbps-6144 kbps			
Image Sensor		1/3" 4Megapixel progressive CMOS						H.265: 12 kbps-6144 kbps
Effective Pixels		2688 (H) × 1520 (V)					Day/Night BLC	Auto(ICR)/Color/B/W
ROM		128 MB						Yes
RAM		128 MB					HLC	Yes
Scanning System		Progressive					WDR	120 dB  Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					White Balance	custom
Min. Illumination		0.008 Lux@F1.5				Gain Control	Auto/Manual	
S/N Ratio		>56 dB					Noise Reduction	3D NR
Illumination Distance		60 m (196.85 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Number		4 (IR LED)					Smart Illumination	Yes
Dow/Tilt/Dotatio	n Danas	Pan: 0°–360°					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Supports $90^\circ/270^\circ$ with 2688 $\times1520$ resolution and lower.)
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Audio	
Mount Type		ф14					Audio Compression	G.711a; G.711Mu; G.726; AAC
Focal Length		2.7 mm-13.5 mm				Alarm		
Max. Aperture Field of View		F1.5  Horizontal: 104°–27°  Vertical: 55°–15°  Diagonal: 124°–31°					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; audio detection; safety exception; local alarm
Iris Type		Fixed					Network	
Close Focus Dist	ance	0.8 m-0.8 m (2.62 ft-2.62 ft)					Network	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify		SDK and API	Yes
DORI Distance	W	64 m (209.97 ft) 220 m	25.6 m (83.99 ft) 88 m	12.8 m (41.99 ft)	6.4 m (21.00 ft)		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; trusted
	Т	(721.78 ft)	(288.71 ft)	(144.36 ft)	(72.18 ft)			execution; trusted upgrade
Smart Event		Tripwire; intrusion					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; 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	Dahua Cloud; FTP; Micro SD card (support max. 256 G); NAS; SFTP
Video Framo Bato		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps)					Browser	IE Chrome Firefox
Video Frame Rate		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams					Mobile Phone	IOS; Android
,							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

# Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel In: 5mA 5VDC
Alarm Output	1 channel Out: 300mA 12VDC

#### 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)		
Protection	IP67;IK10(optional)		

#### Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

#### **Ordering Information** Part Number Description Type 4MP Lite IR Vari-focal Bullet Network DH-IPC-HFW2431TP-ZAS-S2 Camera,PAL 4MP Camera 4MP Lite IR Vari-focal Bullet Network DH-IPC-HFW2431TN-ZAS-S2 Camera,NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC 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

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

# Dimensions (mm[inch])



