

# DH-IPC-HDW2431T-S2

4MP Lite IR Fixed-focal Eyeball 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 coding, high compression ration, 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
- · Max. 256 GB 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 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				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)	
Camera						
Image Sensor	1/3" 4Megap	oixel progressiv	ve CMOS		Bit Rate Control	CBR/VBR
Max. Resolution	2688 (H) × 1520 (V)				Video Bit Rate	H.264: 32 kbps-6144 kbps
ROM	128 MB					H.265: 12 kbps-6144 kbps
RAM	128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System	Progressive				BLC	Yes
Electronic Shutter Speed	lectronic Shutter Speed Auto/Manual 1/3 s-1/100000 s				HLC	Yes
Min. Illumination	0.01 Lux @ F	1.6			WDR	120 dB
S/N Ratio	>56 dB				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/Manua	ıl			Noise Reduction	3D NR
Illuminator Number	2 (IR LED)				Motion Detection	Disable/Enable (4 areas, rectangle)
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–78°			Region of Interest(RoI)	Yes (4 areas)		
Rotation: 0°–360°				Smart Illumination	Yes	
Lens					Image Rotation	$0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Supports $90^{\circ}\!/270^{\circ}$ with $2688\times1520$ resolution.)
Lens Type Fixed-focal				Mirror	Yes	
Mount Type	M12				Privacy Masking	4 areas
Focal Length 2.8 mm 3.6 mm					Audio	
Max. Aperture F1.6 F1.6				Built-in MIC	None	
	2.8 mm:				Audio Compression	G.711A; G.711Mu; G.726
Field of View Horizontal 102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm:		Alarm				
Horizontal 84.0° × Vertical 45.0° × Diagonal 100.0°			nal 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						
Close Focus Distance 2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)			Network			
Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI 2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	SDK and API	Yes
Distance 3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
Smart event					Cyber Security	X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
IVS	Tripwire; intr	usion				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video  H.265; H.264; H.264B; MJPEG(only supported			orted	Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Video Compression by sub stream)			or ted	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P;	
Smart H.265+/ Smart H.264+				User/Host	Milestone; Genetec	
	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; Micro SD card (support max. 256 G); NAS; SFTP
Video Frame Rate					Browser	IE Google Firefox
Stream Capability 2 streams				Management Software	Smart PSS; DSS; DMSS	

# Lita Sarias | DH IDC HDW2/131T S2

ite Series   DH-IPC-HDW2431T-S2				
Mobile Phone	IOS; Android			
Certification				
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			
Power				
Power Supply	12V DC/PoE			
Power Consumption	Basic power consumption: 2.1W (12V DC), 2.5W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.7W (12V DC), 6.6W (POE)			
Environment				
Operating Temperature	-40°C to +60°C (-40°F to +140°F)			
Operating Humidity	≤95%			
Storage Temperature	-40°C to +60°C (-40°F to +140°F)			
Storage Humidity	≤95%			

# Protection Structure

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.86 lb)
Gross Weight	0.52 kg (1.15 lb)

IP67

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC- HDW2431TP-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, PAL			
	DH-IPC- HDW2431TN-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC			
	PFA130-E	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
Accessories	PFM321D	DC12V1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

## **Accessories**

## Optional:







PFA152-E

Pole Mount

PFA130-E Junction Box

PFB203W

Wall Mount



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

PFM900-E Integrated Mount Tester



PFM321D

DC12V1A

Power Adapter

PFM114 TLC SD card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFB203W

## Dimensions (mm[inch])



