

# DH-IPC-HDBW2431R-ZAS-S2

4MP Lite IR Fixed-focal Dome Network Camera



#### **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.

- 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: 40 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
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection



#### 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

#### Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

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



# Lite Series | DH-IPC-HDBW2431R-ZAS-S2

## **Technical Specification**

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Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.008 Lux @ F1.5			
S/N Ratio		>56 dB			
Illumination Distance		40 m (131.23 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		ф14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 104°–27° 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	Observe	Recognize	Identify
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21 ft)
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			
Smart Codec		Smart H.265+/ Smart H.264+			
Video Frame Rate		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)			
Stream Capability		2 streams			
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)			

Bit Rate ControlCBR/VBRVideo Bit RateH.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/VBLCVaBLCVeHLCVesWDR120 dBWhite BalanceAuto/IcAtural/street lamp/outdoor/manual/regional customNoise ReductionDN RNotion DetectionOF/ON (4 areas, rectangular)Region of Interest(Rol)Yes (4 areas)MirrorYesImage RotationO/90/180/270' (Supports 90'/270' with 2688 × 1520)NirrorVesAudio Compression6/11a (6.711Mu; 6.726; AACAudio Compression6.711a (6.711Mu; 6.726; AACAudio CompressionSo Sc aard; SD card full; SD card error; network disconnection; PC conflict; motion detection; video targention; pripering; tripswire; intrusion; illegal access; voltage detection; adio detection; safety exception; local alarnNetworkYesAutano Ale NVideo encryption; firmware encryption; configuration prython; Digest; WSSE; account lockout; security logs; p/MAC filtering; generation and importing of X.Sog prython; Digest; WSSE; account lockout; security logs; p/MAC filtering; securation and importing of X.Sog prython; Subs; Digest; Dirys; Disp; Subs; Coss; Dirys; Coss;
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Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host 20
Storage FTP; Micro SD card (support max. 256 G); NAS; SFTP
IE Browser Chrome Firefox
Management Software Smart PSS; DSS; DMSS
Mobile Phone IOS; Android

www.dahuasecurity.com

# Lite Series | DH-IPC-HDBW2431R-ZAS-S2

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	< 6.5W	
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)	
Protection	IP67, IK10	
Structure		
Casing	Metal	
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")	
Net Weight	0.47 kg (1.04 lb)	
Gross Weight	0.63 kg (1.39 lb)	

### **Ordering Information**

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW2431RP-ZAS-S2	4MP Lite IR Fixed-focal Dome Network Camera,PAL	
	DH-IPC-HDBW2431RN-ZAS-S2	4MP Lite IR Fixed-focal Dome Network Camera,NTSC	
Accessories (optional)	PFA137	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA200W	Rain Shade	
	PFA106	Mount Adapter	
	PFB220C	Celling Mount	
	PFB200C	In-Celling Mount	
	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	РҒМ900-Е	Integrated Mount Tester	
	PFM114	TLC SD Card	

Accessories **Optional:** 



PFA137

Junction Box



PFB203W

Wall Mount



PFA152-E Pole Mount



PFA200W

Rain Shade

PFB200C

In-Celling Mount



PFA106 Mount Adapter

PFB220C Celling Mount



1 in 1

Coax Extender

PFM321D LR1002-1ET/1EC DC12V1A Power Single-port Long Reach Ethernet over



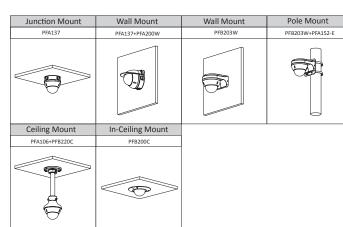
Tester



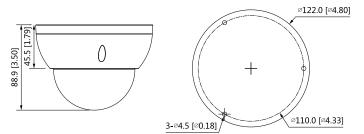
Adapter

PFM900-E Integrated Mount

PFM114 TLC SD Card



## Dimensions (mm[inch])



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