

DH-IPC-HDBW2431R-ZS-S2

4MP WDR IR Dome 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: 40 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tempering, 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 support
- IP67. IK10 protection grade















System Overview

With updraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

Functions

Smart(H.265+ & 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.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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.



Technical Specification								2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);	
Camera							Resolution	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)	
Image Sensor		1/3" CMOS							
Effective Pixels		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR	
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps	
RAM		128 MB					Day/Night	ICR switch	
Scanning System		Progressive					BLC	Yes	
Electronic Shutter Speed		Auto/Manual	1/3 s-1/1000	00 s			WDR	120 dB	
Min. Illumination		0.01 Lux @ F1.6					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
IR Distance		40 m (131.23 ft) (IR)					Gain Control	Auto/Manual	
IR On/Off Control		Auto/Manual					Noise Reduction	3D DNR	
IR LEDs Number		2 (IR LED)					Motion Detection	Disable/Enable (4 areas, rectangle)	
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 0°–67°					Region of Interest(RoI)	Yes (4 areas)	
		Rotation: 0°-	355°				Smart IR	Yes	
Lens Type		Motorized vari-focal					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution.)	
Mount Type		ф14					Mirror	Yes	
Focal Length		ψ14 2.7 mm–13.5 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6					Network		
Field of View		Horizonal: 104°–27° Vertical: 55°–15°					Network	RJ-45 (10/100 Base-T) HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;	
Optical Zoom		Diagonal: 124°–31° 5 times					Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP;IGMP	
Iris Type		Fixed					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	
Close Focus Dista	ance	0.8m-0.8m (2	2.62 ft–2.62 ft)				User/Host	20	
	Lens	Detect Observe Recognize Identify						Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS	
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)		Edge Storage Browser	IE	
30 111 31314 1100	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)			Google Firefox	
Smart Event						Management Software	Smart PSS; DSS; DMSS		
General IVS Anal	ytics	Intrusion; tripwire					Mobile Phone	IOS; Android	
Video							Certification		
Video Compression		H.265; H.264; H.264B; MJPEG						CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Smart Codec		H.264: Yes H.265: Yes					Certifications		
Video Frame Rate		50Hz Main stream (2560 \times 1440@25 fps); sub stream (704 \times 576@25 fps) Main stream (2688 \times 1520@20 fps); sub stream (704 \times 576@20 fps) 60Hz Main stream (2560 \times 1440@30 fps); sub stream (704 \times 480@30 fps) Main stream (2688 \times 1520@20 fps); sub stream (704 \times 480@20 fps)					UL: UL60950-1 CAN		
							Power		
							Power Supply	12V DC/POE	
							Power Consumption	Basic power consumption: 1.9W (12V DC); 2.8W (POE) Max power consumption: (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.6W (12V DC), 6.5W (PDE)	
Stream Capability		Main stream; sub stream						(POE)	

Environment

Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Humidity	≤95%
Protection Grade	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-ZS-S2	4MP WDR IR Dome Network Camera,PAL			
	DH-IPC-HDBW2431RN-ZS-S2	4MP WDR IR Dome Network Camera,NTSC			
	PFA137	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories	PFB220C	Celling Mount			
(optional)	PFB200C	In-Celling Mount			
	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:







PFA137 Junction Box

PFB203W Wall 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



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

Dimensions (mm[inch])





