

DH-IPC-HDBW2431R-ZAS-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
- · Alarm: In, out; audio: In, out; 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					Bit Rate Control	CBR/VBR	
Effective Pixels		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	ICR switch	
Scanning System		Progressive					BLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 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)	
0 /7:1/0		Horizonal: 0°–355°					Region of Interest(RoI)	Yes (4 areas)	
Pan/Tilt/Rotation Range		Vertical: 0°–67° Rotation: 0°–355°					Smart IR	Yes	
Lens							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution.)	
Lens Type		Motorized vari-focal					Mirror	Yes	
Mount Type		ф14					Privacy Masking	4 areas	
Focal Length		2.7 mm-13.5 mm					Audio		
Max. Aperture		F1.6					Audio Compression	G.711a; G.711Mu; G.726; AAC	
Field of View		Horizonal: 104°–27° Vertical: 55°–15°					Network		
Tield of Tiell		veruca: 55 –15 Diagonal: 124°–31°					Network	RJ-45 (10/100 Base-T)	
Optical Zoom		5 times						HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;	
Iris Type		Fixed					Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP;IGMP;	
Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	
	Lens	Detect	Observe	Recognize	Identify		User/Host	20	
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	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS	
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Browser	IE Google Firefox	
Smart Event							Management Software	Smart PSS; DSS; DMSS	
General IVS Anal	lytics	Intrusion; tripwire					Mobile Phone	IOS; Android	
Video							Certification		
Video Compression		H.265; H.264; H.264B; MJPEG						CE-LVD: EN60950-1	
Smart Codec		H.264: Yes H.265: Yes 50Hz					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN	
Video Frame Rate		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)					Port	OL GEOGRAP I CAN	
							Audio Input	1 (RCA port)	
		60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)					Audio Output	1 (RCA port)	
							Alarm Input	1 channel In: 5mA 5VDC	
Stream Canability							Alarm Output	1 channel Out: 300mA 12VDC	
Stream Capability		Main stream; sub stream					·		

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 (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	Ф122 mm × 88.9 mm (Ф4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information Part Number Description Type 4MP WDR IR Dome Network DH-IPC-HDBW2431RP-ZAS-S2 Camera,PAL 4MP Camera 4MP WDR IR Dome Network DH-IPC-HDBW2431RN-ZAS-S2 Camera,NTSC PFA137 Junction Box PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Celling Mount Accessories (optional) PFB200C In-Celling Mount PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA137 Junction Box

37 PFB203W n Box Wall Moun



Pole Mount

PFA152-E



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PFA200W Rain Shade

PFA106 Mount Adapter









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		

Ceiling Mount In-Ceiling Mount PFA106-PFB220C PFB200C

Dimensions (mm[inch])





