

DH-IPC-HDBW2431R-ZAS-S2

4MP WDR IR Dome Network Camera



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.

- 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 DNR, 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 support
- IP67, IK10 protection grade















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					Video Bit Rate	H.264: 32 kbps-6144 kbps		
Camera						Day/Night	H.265: 12 kbps-6144 kbps Auto(ICR)/Color/B/W	
Image Sensor		1/3" 4Megapixel progressive CMOS					BLC	Yes
Effective Pixels		2688 (H) × 1520 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					WDR	
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual
Min. Illumination	า	0.008 Lux @ F1.5					Noise Reduction	3D DNR
IR Distance			40 m (131.23 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Contro	ol	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		2					Smart IR	Yes
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Lens		Rotation: 0°–355°					Mirror	Yes
		NA-Australian district					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					Network	
Max. Aperture		F1.5					Network	RJ-45 (10/100 Base-T)
Field of View		Pan: 104°–27° Tilt: 55°–15° Diagonal: 124°–31°					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x;
Iris Type		Fixed aperture						Bonjour
Close Focus Dista	ance	0.8 m-0.8 m (2.62 ft-2.62 ft)				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
	Lens	Detect 64 m	Observe 25.6 m	Recognize 12.8 m	Identify 6.4 m		User/Host	20
DORI Distance	W T	(209.97 ft) 220 m	(83.99 ft) 88 m	(41.99 ft) 44 m	(21 ft) 22 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Smart Event	·	(721.78 ft)	(721.78 ft) (288.71 ft) (144.36 ft) (72.18 ft)			Browser	IE Chrome Firefox	
General IVS Anal	ytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS
Video	Video						Mobile Phone	IOS; Android
Video Compression		H.265; H.264; H.264B; MJPEG					Certification	
Smart Codec		Yes						
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)					Certifications	CE-LVD: EN60950-1 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
		704 × 480 (1 fps-30 fps)					Port	
Stream Capability		2 streams					Audio Input	1 channel (RCA port)
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)					Audio Output	1 channel (RCA port)
							Alarm Input	1 channel In: 5mA 5VDC
Bit Rate Control		CBR/VBR					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 ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
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

Ordering information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW2431RP-ZAS-S2	4MP WDR IR Dome Network Camera,PAL			
Camera	DH-IPC-HDBW2431RN-ZAS-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:







PFB203W Wall Mount



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB220C Celling Mount



PFB200C In-Celling Mount



Adapter



PFM321D DC12V1A Power



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])





