

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 Sp	ecificati	on				Video Bit Rate	H.264: 32 kbps-6144 kbps
Camera				H.265: 12 kbps-6144 kbps			
Image Sensor		1/3" 4Megapixel progressive CMOS			Day/Night BLC	Auto(ICR)/Color/B/W Yes	
Effective Pixels		2688 (H) × 1520 (V)				HLC	Yes
ROM		128 MB					
RAM		128 MB				WDR	120 dB
Scanning System	1	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		Auto/Manual 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.)
Long		Rotation: 0°–355°				Mirror	Yes
Lens					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 Distance		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	Observe	Recognize	Identify	User/Host	20
DORI Distance	W T	64 m (209.97 ft) 220 m	25.6 m (83.99 ft) 88 m	12.8 m (41.99 ft) 44 m	6.4 m (21 ft) 22 m	Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Smart Event		(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						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)
		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M				Audio Output	1 channel (RCA port)
Resolution		(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			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 \leq 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



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])





