

DH-IPC-HDBW2431R-ZAS-S2

4MP WDR IR Dome Network Camera



- \cdot 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: In, out; audio: In, out; 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.

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.



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

Technical Specification

Camera						
Image Sensor		1/3" 4Megapixel progressive CMOS				
Effective Pixels		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		0.01 Lux @ F1.5				
IR Distance		40 m (131.23 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 0°–67° 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		Horizonal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°				
Optical Zoom		5 times				
Iris Type		Fixed				
Close Focus Distance		0.8m–0.8m (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						
General IVS Anal	ytics	Intrusion; trip	owire			
Video						
Video Compressi	on	H.265; H.264; H.264B; MJPEG				
Smart Codec		H.264: Yes H.265: 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) 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 Control	CBR/VBR				
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps				
Day/Night	ICR switch				
BLC	Yes				
WDR	120 dB				
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom				
Gain Control	Auto/Manual				
Noise Reduction	3D DNR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest(RoI)	Yes (4 areas)				
Smart IR	Yes				
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution.)				
Mirror	Yes				
Privacy Masking	4 areas				
Audio					
Audio Compression	G.711a; G.711Mu; G.726; AAC				
Network					
Network	RJ-45 (10/100 Base-T)				
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP;IGMP;				
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec				
User/Host	20				
Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS				
Browser	IE Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
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				
Port					
Audio Input	1 (RCA port)				
Audio Output	1 (RCA port)				
Alarm Input	1 channel In: 5mA 5VDC				
Alarm Output	1 channel Out: 300mA 12VDC				
Power					
Power Supply	12V DC/POE				

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Power Consumption	< 6.5W			
Environment				
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/ less than $\leq 95\%$			
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

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW2431RP-ZAS-S2	4MP WDR IR Dome Network Camera,PAL	
	DH-IPC-HDBW2431RN-ZAS-S2	4MP WDR IR 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	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	



PFA200W Rain Shade



PFM321D

DC12V1A Power

Adapter

PFB220C

Celling Mount

LR1002-1ET/1EC

Single-port long

reach ethernet over coax extender



PFB200C In-Celling Mount



PFM900-E Integrated Mount tester

Junction Mount

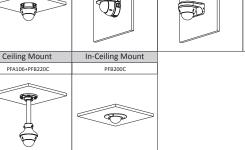
PFA137

PFM114 TLC SD card

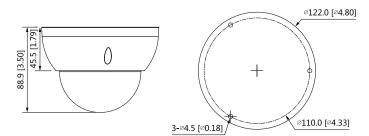
Wall Mount
Wall Mount
Pole Mount

PFA137+PFA200W
PFB203W
PFB203W+PFA152-E

Image: Comparison of the second sec



Dimensions (mm[inch])





PFA137

Junction Box

Accessories

Optional:



PFB203W Wall Mount

PFA152-E Pole Mount

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