

DH-IPC-HDBW2831R-ZAS-S2

8MP Lite IR Vari-focal Dome Network Camera



Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

- \cdot 8MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- Outputs max. 8MP (3840 × 2160)@15 fps, and supports 2688 × 1520 (2688 × 1520)@25/30 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 NR, 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 disconnection, IP conflict, illegal access, local alarm, voltage detection, audio detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12 V DC/PoE power supply
- IP67, IK10 protection



IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

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 cm (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.



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Technical Specification

Camera						
Image Sensor		1/2.7" CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		256 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.008 Lux@F1.5				
S/N Ratio		> 56 dB				
Illumination Distance		40 m (131.2 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		2 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 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		Pan: 113°–31° Tilt: 58°–17° Diagonal: 138°–36°				
Iris Type		Fixed				
Close Focus Dista	ince	0.8m–0.8m (2.62 ft–2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	85.3 m (279.9 ft)	34.1 m (111.9 ft)	17 m (55.8 ft)	8.5 m (27.9 ft)	
Distance	т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)	
Smart Event						
IVS		Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				
Smart Codec		Smart H.265+/ Smart H.264+				
		Main stream:				

3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps)

Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)

2 streams

Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 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–8192 kbps H.265: 12 kbps–8192 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest(RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	G.711a; G.711Mu; G.726	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception; local alarm	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
User/Host	20	
Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	

Video Frame Rate

Stream Capability



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Mobile Phone	IOS; Android	
Certification		
Certifications	CE-LVD: EN62368-1 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 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel In: 5mA 5V DC	
Alarm Output	1 channel Out: 300mA 12V DC	
Power		
Power Supply	12 V DC/PoE (802.3af)	
Power Consumption	< 7.4 W	
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	IP67; IK10	
Structure		
Casing	Metal	
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")	
Net Weight	0.47 kg (1.1 lb)	
Gross Weight	0.63 kg (1.4 lb)	

Ordering Information

Туре	Part Number	Description	
8MP Camera	DH-IPC-HDBW2831RP-ZAS-S2	8MP Lite IR Vari-focal Dome Network Camera,PAL	
	DH-IPC-HDBW2831RN-ZAS-S2	8MP Lite IR Vari-focal Dome Network Camera,NTSC	
Accessories (optional)	PFA137	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA200W	Rain Shade	
	PFA106	Mount Adapter	
	PFB220C	Ceiling Mount	
	PFB200C	In-Ceiling Mount	
	PFM321D	DC12 V 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	РҒМ900-Е	Integrated Mount Tester	
	PFM114	TLC SD Card	

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Accessories

Optional:



Junction Box



PFB203W

Wall Mount

PFA106

PFA152-E Pole Mount



PFA200W Rain Shade



In-Ceiling Mount

PFA137

Ceiling Mount

PFA106+PFB220C

P

PFB200C



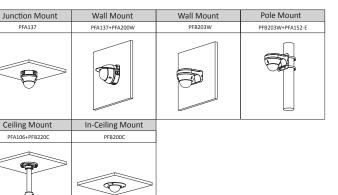
Adapter



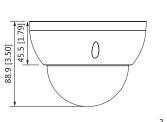
PFM900-E Integrated Mount Tester

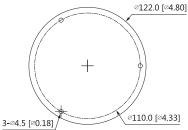






Dimensions (mm[inch])







Mount Adapter Ceiling Mount 1 in 1 i i i i

LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

PFB220C