

DH-IPC-HDBW2831R-ZAS-S2

8MP Lite IR Vari-focal Dome Network Camera



- 8MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- Outputs max. 8MP (3840 \times 2160)@15 fps, and supports 2688 \times 1520 (2688 \times 1520)@25/30 fps
- · Support Triple Stream
- \cdot 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















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.

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.

Technical Specification								3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);	
Camera							Resolution	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	
Image Sensor		1/2.7" CMOS							
Max. Resolution		3840 (H) × 2160 (V)					Bit Rate Control	(640 × 480); CIF (352 × 288/352 × 240) CBR/VBR	
ROM		128 MB						H.264: 32 kbps–8192 kbps	
RAM		256 MB					Video Bit Rate	H.265: 12 kbps-8192 kbps	
Scanning System		Progressive					Day/Night	Auto (ICR)/Color/B/W	
Electronic Shutter Speed		Auto/Manua	1/3 s-1/100,0	000 s			BLC	Yes	
Min. Illumination		0.008 Lux@F1.5					HLC	Yes	
S/N Ratio		> 56 dB					WDR	120 dB	
Illumination Dis	Illumination Distance		40 m (131.2 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illuminator On/0	Off Control	Auto/Manual					Gain Control	Auto/Manual	
Illuminator Num	nber	2 (IR LED)					Noise Reduction	3D NR	
		Pan: 0°-355°					Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotation Range		Tilt: 0°–67° Rotation: 0°–355°					Region of Interest(RoI)	Yes (4 areas)	
Lens							Smart Illumination	Yes	
Lens Type		Motorized vari-focal					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)	
Mount Type		ф14					Mirror	Yes	
Focal Length		2.7 mm-13.5 mm					Privacy Masking	4 areas	
Max. Aperture		F1.5					Audio		
F: 11 () ()		Pan: 113°–31°					Audio Compression	G.711a; G.711Mu; G.726	
Field of View		Tilt: 58°–17° Diagonal: 138°–36°					Alarm		
Iris Type		Fixed					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	
Close Focus Dist	ance	0.8m-0.8m (2.62 ft-2.62 ft)							
	Lens	Detect	Observe	Recognize	Identify		Network		
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)		Network	RJ-45 (10/100 Base-T)	
Distance	Т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)		SDK and API	Yes	
Smart Event		(918.6 it) (367.5 it) (183.7 it) (91.9 it)						Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;	
ivs		Tripwire; intrusion					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted	
		pc, indusion						execution; trusted upgrade	
Video Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					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	
Smart Codec		Smart H.265+/ Smart H.264+					Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
Video Frame Rate		Main stream:					User/Host	20	
		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) Third stream: CIF@1fps					Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
							Browser	IE Chrome Firefox	
Stream Capabili	Stream Capability		3 streams				Management Software	Smart PSS; DSS; DMSS	
occam capability									

Lite Series DH-IPC-HDBW2831R-ZAS-S2			
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	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)/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	DH-IPC-HDBW2831RP-ZAS-S2	8MP Lite IR Vari-focal Dome Network Camera,PAL			
Camera	DH-IPC-HDBW2831RN-ZAS-S2	8MP Lite IR Vari-focal Dome Network Camera,NTSC			
	PFA137	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories	PFB220C	Ceiling Mount			
(optional)	PFB200C	In-Ceiling Mount			
	PFM321D	DC12 V 1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
Rev 001.001 © 20	PFM114 21 Dahua, All rights reserved. Design and specifical	TLC SD Card			

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 DC12V1A Power Adapter

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



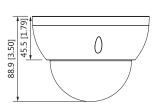
PFM900-E Integrated Mount Tester

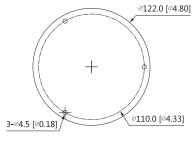


PFM114 TLC SD Card

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])





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