

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.

- · 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
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 35 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.

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 (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps–8192 kbps
RAM		256 MB						H.265: 12 kbps–8192 kbps
Scanning System		Progressive					Day/Night	Auto (ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					BLC	Yes
Min. Illumination		0.008 Lux@F1.5					HLC	Yes
S/N Ratio		> 56 dB					WDR	120 dB
Illumination Distance		35 m (114.83 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/C	Illuminator On/Off Control						Gain Control	Auto/Manual
Illuminator Num	ber	2 (IR LED)					Noise Reduction	3D NR
		Pan: 0°-355°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Tilt: 0°–67° Rotation: 0°–355°					Region of Interest(RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type	Lens Type		ri-focal				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Mount Type	Mount Type						Mirror	Yes
Focal Length		2.7 mm–13.5 mm					Privacy Masking	4 areas
Max. Aperture		F1.5					Audio	
Field of View		Pan: 113°–31°					Audio Compression	G.711a; G.711Mu; G.726
Field of View		Tilt: 58°–17° Diagonal: 138°–36°					Alarm	
Iris Type		Fixed						No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)					Alarm Event	tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception; local alarm
	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		(310.0 10)	(507.510)	(100.7 10)	(32.3 10)			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
Video		, ,						execution; trusted upgrade
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
		Main stream:					User/Host	20
Video Frame Rate		3840 × 2160 (1 fps-15 fps) 2688 × 1520 (1 fps-25/30 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Browser	IE Chrome Firefox
Stream Capability		2 streams					Management Software	Smart PSS; DSS; DMSS

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 °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 Part Number Description Type 8MP Lite IR Vari-focal Dome DH-IPC-HDBW2831RP-ZAS-S2 Network Camera, PAL 8MP Camera 8MP Lite IR Vari-focal Dome DH-IPC-HDBW2831RN-ZAS-S2 Network Camera, NTSC PFA137 Junction Box PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Ceiling Mount Accessories (optional) PFB200C In-Ceiling Mount PFM321D DC12 V 1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester

Accessories

Optional:





PFA137 Junction Box

PFB203W ox 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



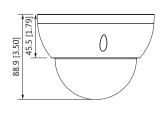
PFM900-E Integrated Mount Tester

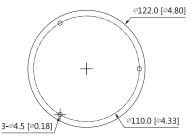


PFM114 TLC SD Card

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])





Rev 001.001 © 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.

PFM114

www.dahuasecurity.com

TLC SD Card