

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 image definition
- 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: 60 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 abnormal
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V 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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 ×	
Image Sensor 1/2.7	1/2.7" 8Megapixel progressive CMOS			Resolution	1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA	
Max. Resolution 3840	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	256 MB			Video Bit Rate	H.265: 12 kbps-8192 kbps	
Scanning System Prog	ressive			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	0.008 Lux@F1.5			HLC	Yes	
S/N Ratio >56	dB			WDR	120 dB	
Illumination Distance 40 m	n (131.2 ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illuminator On/Off Control Auto	/Manual			Gain Control	Auto/Manual	
Illuminator Number 2 (IR	LED)			Noise Reduction	3D NR	
	0°-355°			Motion Detection	OFF/ON (4 areas, rectangular)	
, ,, .,	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 3840×2160 resolution and lower.)			
Mount Type $\phi 14$		Mirror	Yes			
Focal Length 2.7 n	nm-13.5 mm			Privacy Masking	4 areas	
Max. Aperture F1.5				Audio	Audio	
	113°-31°			Audio Compression	G.711a; G.711Mu; G.726	
	58°–17° onal: 138°–36°			Alarm	Alarm	
Iris Type Fixed	ł			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 Distance 0.8m	n-0.8m (2.62 ft-2.62 ft	·)				
Lens De	etect Observe	Recognize	Identify	Network		
\\/	34.1 m 9.9 ft) (111.9 ft)	17 m (55.8 ft)	8.5 m (27.9 ft)	Network	RJ-45 (10/100 Base-T)	
	30 m 112 m 8.6 ft) (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)	SDK and API	Yes	
Smart Event	6.01() (507.51()	(103.7 11)	(91.910)		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;	
	vire; intrusion			Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Video	They man abion					
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) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)			Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
704 :				Browser	IE Chrome Firefox	
Stream Capability 2 streams						

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	12V DC/PoE (802.3af)		
Power Consumption	< 7.4W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67; IK10		

Structure

Casing	Metal
Dimensions	Ф122 mm × 88.9 mm (Ф4.80" × 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			
	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			
Rev 001.001 © 2	PFM114 O20 Dahua, All rights reserved. Design and specific	TLC SD Card			

Accessories

Optional:







PFA137 Junction Box

PFB203W x Wall Mount

W PFA152-E unt 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

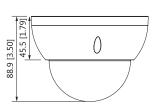


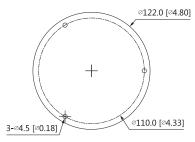
PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

Ceiling Mount In-Ceiling Mount PFA106+PFB220C PFB200C

Dimensions (mm[inch])





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