

# DH-IPC-HDBW2831R-ZAS-S2

8MP Lite IR Vari-focal Dome Network Camera



**System 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 to the standards of IP67 and IK10 (Supported by some select models).

### **Functions**

## **Smart Codec**

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.

- · 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
- $\cdot$  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 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 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 support
- IP67, IK10 protection













#### Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

## IVS

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

#### 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 Sp	ecificati	ion					Bit Rate Control	CBR/VBR	
Camera							Video Bit Rate	H.264: 32 Kbps-8192 Kbps	
Image Sensor		1/2.7" 8Megapixel progressive CMOS					Day/Night	H.265: 12 Kbps-8192 Kbps Auto(ICR)/Color/B/W	
Effective Pixels		3840 (H) × 2160 (V)				BLC	Yes		
ROM		128 MB				HLC	Yes		
RAM	RAM		256 MB				WDR	120 dB	
Scanning System	Scanning System		Progressive					Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					White Balance	custom	
Min. Illumination		0.008 Lux@F1.5					Gain Control	Auto/Manual	
IR Distance		40 m (131.2 ft)					Noise Reduction	3D DNR	
IR On/Off Contro	IR On/Off Control		Auto/Manual				Motion Detection	OFF/ON (4 areas, rectangular)	
IR LEDs Number		2					Region of Interest(RoI)	Yes (4 areas)	
Pan/Tilt/Rotatio	n Rango	Pan: 0°-355° Tilt: 0°-67°					Smart IR	Yes	
rany my notatio	ii Nange	Rotation: 0°-	355°				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)	
Lens							Mirror	Yes	
Lens Type		Motorized vari-focal					Privacy Masking	4 areas	
Mount Type		ф14				Audio			
Focal Length		2.7 mm-13.5 mm				Audio Compression	G.711a; G.711Mu; G.726; AAC		
Max. Aperture		F1.5	F1.5				Network		
Field of View		Pan: 113°–31° Tilt: 58°–17°				Network	RJ-45 (10/100 Base-T)		
Iris Type		Diagonal: 138°–36°  Auto					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)					Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
	Lens	Detect	Observe	Recognize	Identify		User/Host	20	
DORI Distance	W	85.3 m (279.9 ft) 280 m	34.1 m (111.9 ft) 112 m	17 m (55.8 ft)	8.5 m (27.9 ft) 28 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Smart Event	Т	(918.6 ft) (367.5 ft) (183.7 ft) (91.9 ft)				Browser	IE Chrome Firefox		
General IVS Anal	ytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS	
Video							Mobile Phone	IOS; Android	
	Video Compression		; H.264B; MJPE	EG .			Certification		
Smart Codec	·		Yes				certification	E-LVD: EN60950-1	
Video Frame Rate		Main stream: 3840 × 2160 (1 fps-15 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)					Certifications	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	
Stream Capability		704 × 480 (1 fps–30 fps) 2 streams					Port		
эл сант саравшту		2 streams 3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);					Audio Input	1 channel (RAC port)	
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)					Audio Output	1 channel (RAC 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	$-30^{\circ}$ C to +60°C ( $-22^{\circ}$ F to +140°F)/less than $\leq 95\%$ RH		
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 (1.1 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 Celling Mount Accessories (optional) PFB200C In-Celling Mount DC12V1A Power Adapter PFM321D Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

### Accessories

## **Optional:**







PFA137 Junction Box

PFB203W











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		

## Dimensions (mm[inch])





