

DH-IPC-HDBW2831R-ZS-S2

8MP Lite IR Vari-focal Dome Network Camera



- 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: 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, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67, IK10 protection















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.

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 Specification							Bit Rate Control	CBR/VBR	
Camera							Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 12 Kbps–8192 Kbps	
Image Sensor		1/2.7" 8Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W	
Effective Pixels		3840 (H) × 2160 (V)					BLC	Yes	
ROM		128 MB					HLC	Yes	
RAM		256 MB					WDR	120 dB	
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Gain Control	custom Auto/Manual	
Min. Illumination		0.008 Lux@F1.5					Noise Reduction	3D DNR	
IR Distance		40 m (131.2 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number		2					Smart IR	Yes	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–67° 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					Network	etwork	
Focal Length		2.7 mm-13.5 mm					Network	RJ-45 (10/100 Base-T)	
Max. Aperture		F1.5						IPV4; IPV6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;	
Field of View		Pan: 113°–31° Tilt: 58°–17° Diagonal: 138°–36°					Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPPP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Iris Type		Fixed					Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
Close Focus Dist	Close Focus Distance		2.62 ft-2.62 ft)				User/Host	20	
	Lens	Detect	Observe	Recognize	Identify		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max.	
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)			256 GB); NAS	
	Т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)		Browser	Chrome Firefox	
Smart Event							Management Software	Smart PSS; DSS; DMSS	
General IVS Ana	lytics	Tripwire; intr	usion				Mobile Phone	IOS; Android	
Video	Video						Certification		
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive	
Smart Codec		Yes						2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
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)					Davis	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
							Power	401/20/9 5 (000 0 7)	
		704 × 576 (1 fps=25 fps) 704 × 480 (1 fps=30 fps)					Power Supply	12V DC/PoE (802.3af)	
Stream Capability		2 streams					Power Consumption < 7.4W		
Resolution		3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944);					Environment	2000 1- 1000 1- 2005 1- 144005 11- 11- 1050 1-11-	
		2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×					Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH	
		960); 720p (1	1230 (2304 × 1230), 1000 (1320 × 1000), 1.3 M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
		(UTU ~ TUU), CII (JJ2 ~ 200/JJ2 ~ 24U)					Protection Grade	IP67; IK10	

Lite Series | DH-IPC-HDBW2831R-ZS-S2

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)



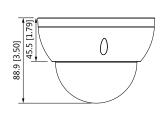


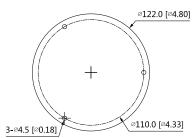
PFM114 TLC SD Card

Ordering Information						
Туре	Part Number	Description				
8MP Camera	DH-IPC-HDBW2831RP-ZS-S2	8MP Lite IR Vari-focal Dome Network Camera,PAL				
	DH-IPC-HDBW2831RN-ZS-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				
	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])





Accessories

Optional:







PFB203W Wall Mount



PFA152-E 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

