

DH-IPC-HDBW2831E-S-S2

8MP Lite IR Fixed-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
- Support Triple Stream
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 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, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V 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 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, 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.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 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)	
Camera								
Image Sensor		1/2.7" 8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
RAM		256 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumination		0.009 Lux@F2.0					WDR	120 dB
S/N Ratio		>56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination Distance		30 m (98.43 ft)					Gain Control	custom Auto/Manual
Illuminator On/0	Off Control	Auto/Manual					Noise Reduction	3D NR
Illuminator Num	nber	3 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Don/Tilt/Dotatio	n Danas	Pan: 0°-355°						
Pan/Tilt/Rotation Range		Tilt: 0°–65° Rotation: 0°–	355°				Region of Interest(RoI)	Yes (4 areas) Yes
Lens							Smart Illumination	0°/90°/180°/270° (Supports 90°/270° with 3840 × 2160
Lens Type		Fixed-focal					Image Rotation	resolution and lower.)
Mount Type		M12					Mirror	Yes
Focal Length		2.8 mm 3.6 mm					Privacy Masking	4 areas
NAOV Amortuno		F2.0					Alarm	
Max. Aperture Field of View		F2.0 2.8 mm: Horizontal 105° × Vertical 56° × Diagonal 125° 3.6 mm: Horizontal 87° × Vertical 47° × Diagonal 104°					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; safety exception
Iris Type		Fixed					Network	
Close Focus Dist	tance	2.8 mm: 1.0 m (3.3 ft)					Network	RJ-45 (10/100 Base-T)
Close Focus Dist		3.6 mm: 1.9 m (6.2 ft)				SDK and API	Yes	
	Lens	Detect 74.7 m	Observe 29.9 m	Recognize 14.9 m	Identify 7.5 m		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
DORI Distance	2.8mm	(245.1 ft)	(98.1 ft)	(48.9 ft)	(24.6 ft)			
	3.6mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.6 ft)	10.7 m (35.1 ft)			
Smart Event	:							IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
IVS		Tripwire; intrusion					Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video								
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
		Main stream:					Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
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)					Browser	IE Chrome Firefox
		Third stream: CIF@1fps					Management Software	Smart PSS; DSS; DMSS
Stream Capability		3 streams					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
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Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 6.2W		

Environment

Power Consumption	-40 °C to $+60$ °C (-40 °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	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.491 kg (1.08 lb)

Ordering Information

Туре	Part Number	Description	
8MP	DH-IPC-HDBW2831EP-S-S2	8MP Lite IR Fixed-focal Dome Network Camera,PAL	
Camera	DH-IPC-HDBW2831EN-S-S2	8MP ILite IR Fixed-focal Dome Network Camera,NTSC	
	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories	PFA106	Mount Adapter	
(optional)	PFB220C	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	

Accessories

Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount





PFA106 Mount Adapter



PFB220C Celling Mount



PFM321D DC12V1A Power Adapter



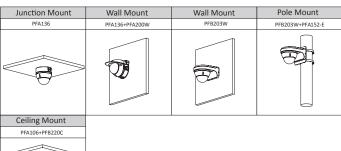
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



Dimensions (mm[inch])

