

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
- 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 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							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944);		
Camera							Resolution	5072 ×1728 (3072 × 1728), 2392 × 1344 (2392 × 1344), 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" 8Megapixel progressive CMOS							
Effective Pixels		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	
IR Distance		30 m (98.43 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
IR On/Off Contr	ol	Auto/Manual					Gain Control	custom Auto/Manual	
IR LEDs Number		3						Auto/Manual 3D DNR	
D /Tilk /D-+-+i-	D	Pan: 0°-355°					Noise Reduction		
Pan/Tilt/Rotation Range		Tilt: 0°–65° Rotation: 0°–355°					Motion Detection	OFF/ON (4 areas, rectangular)	
Lens	Lens						Region of Interest(RoI)	Yes (4 areas)	
Lens Type		Fixed-focal					Smart IR	Yes	
Mount Type		M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)	
Focal Length		2.8 mm 3.6 mm					Mirror	Yes	
NA A		F2.0					Privacy Masking	4 areas	
Max. Aperture		F2.0					Network		
Field of View				× Diagonal 125 Diagonal 104°			Network	RJ-45 (10/100 Base-T)	
Iris Type		Fixed						IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;	
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)					Protocol	UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
	2.8mm	74.7 m	29.9 m	14.9 m	7.5 m		User/Host	20	
DORI Distance		(245.1 ft) 106.7 m	(98.1 ft) 42.7 m	(48.9 ft) 21.3 m	(24.6 ft) 10.7 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
	3.6mm	(350.1 ft)	(140.1 ft)	(69.6 ft)	(35.1 ft)			IE	
Smart Event							Browser	Chrome Firefox	
General IVS Ana	llytics	Tripwire; intrusion					Management Software	Smart PSS; DSS; DMSS	
Video							Mobile Phone	IOS; Android	
Video Compression		H.265; H.264; H.264B; MJPEG					Certification		
Smart Codec		Yes						OF IVE ENCASE A	
Video Frame Rate		Main stream: 3840 × 2160 (1 fps-15 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream:					Certifications	CE-LVD: EN60950-1 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	
		704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)					Power		
							Power Supply	12V DC/PoE (802.3af)	
Stream Capability		2 streams					Power Consumption	< 6.2W	

Environment

Power Consumption	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 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:







PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB203W Wall Mount



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

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])





