

DH-IPC-HDW2831EM-AS-S2

8MP Lite IR Fixed-focal Eyeball 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.

- \cdot 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: 30 m
- \cdot ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- \cdot 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
- \cdot Supports max. 256 GB Micro SD card, built-in MIC
- \cdot 12V DC/PoE power supply
- · IP67 protection



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.

Protection (IP67, wide voltage)

P67: 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Lite Series | DH-IPC-HDW2831EM-AS-S2

Technical Specification

Camera					
Image Sensor		1/2.7" 8Megapixel progressive CMOS			
Effective Pixels		3840 (H) ×2160 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.009 Lux@F2.0			
IR Distance		30 m (98.43 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F2.0 F2.0			
Field of View		2.8 mm: Pan 105° × Tilt 56° × Diagonal 125° 3.6 mm: Pan 87° × Tilt 47° × Diagonal 104°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)
	3.6 mm	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					
General IVS Analytics		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by the sub stream)			
Smart Codec		Smart H.265+/ Smart H.264+			
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) 704 × 480 (1 fps–30 fps)			

2 streams

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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(Rol)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711A; G.711Mu; G.726		
Network			
Network	RJ-45 (10/100 Base-T)		
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		
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20		
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
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		



Stream Capability

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Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 7.2W		
Environment			
Operating Conditions	−40°C to +55°C (−40°F to +131°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67		
Structure			
Casing	Metal		
Dimensions	93.6 mm × Φ106 mm (3.7" × Φ4.2")		
Not M/sight	530 g (1.1 lb)		
Net Weight	550 B (1.1 lb)		

Description

Camera, PAL

Junction Box

Wall Mount

Pole Mount

Cell Mount

Extender

TLC SD Card

Mount Adapter

DC12V1A Power Adapter

Integrated Mount Tester

Single-port Long Reach Ethernet over Coax

8MP Lite IR Fixed-focal Eyeball Network

1 in 12 1 in 12

LR1002-1ET/1EC

Single-port Long Reach Ethernet over

Coax Extender



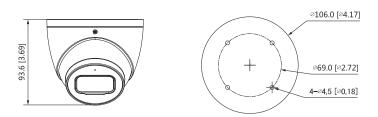
PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

Ceiling Mount Celling Mount Wall Mount P Pole Mount(Vertical)



Dimensions (mm[inch])



Accessories

Ordering Information

Туре

8MP Camera

Accessories

(optional)

Part Number

HDW2831EM-

DH-IPC-

AS-S2 PFA130-E

PFB204W

PFA152-E

PFA106

PFB220C

PFM321D

PFM900-E

PFM114

LR1002-1ET/1EC

Optional:



PFA130-E Junction Box



PFA106 Mount Adapter



PFB204W Wall Mount



PFB220C Cell Mount



PFA152-E Pole Mount



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