

# DH-IPC-HDW2831EM-AS-S2

8MP Lite IR Fixed-focal Eyeball 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
- $\cdot$  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, built-in MIC
- · 12V DC/PoE power supply
- · IP67 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.

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

Technical Specification					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×		
Camera						Decelotion	2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536);
Image Sensor		1/2.7" 8Megapixel progressive CMOS				Resolution	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
Effective Pixels		3840 (H) ×2160 (V)					× 240)
ROM		128 MB				Bit Rate Control	CBR/VBR
RAM		256 MB				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Scanning Syste	Scanning System					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				BLC	Yes
Min. Illumination		0.009 Lux@F2.0				HLC	Yes
IR Distance		30 m (98.43 ft)				WDR	120 dB
IR On/Off Control		Auto/Manual				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR LEDs Numbe	er	2 (IR LED)				Gain Control	Auto/Manual
Pan/Tilt/Rotat	ion Range	Pan: 0°-360° Tilt: 0°-78°				Noise Reduction	3D NR
Tany Tity Notat	ion Nange	Rotation: 0°-	-360°			Motion Detection	OFF/ON (4 areas, rectangular)
Lens						Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal				Smart IR	Yes
Mount Type		M12				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 $\times$ 1520 resolution and lower.)
Focal Length	Focal Length					Mirror	Yes
Max. Aperture		F2.0 F2.0				Privacy Masking	4 areas
		2.8 mm: Pan	105° × Tilt 56	°× Diagonal 12	5°	Audio	
Field of View				× Diagonal 104		Built-in MIC	Yes
Iris Type		Fixed				Audio Compression	G.711A; G.711Mu; G.726
Close Focus Di	stance	2.8 mm: 1.0	` '			Network	
		3.6 mm: 1.9	m (6.2 ft)			Network	RJ-45 (10/100 Base-T)
DORI Distance	Lens 2.8 mm	74.7 m (245.1 ft)	Observe 29.9 m (98.1 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)	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
	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)	Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart event						User/Host	20
General IVS Analytics		Tripwire; intrusion				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by the sub stream)				Browser	IE Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+				Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps)				Mobile Phone	IOS; Android
						Certification	
video Frame Kate		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability		2 streams					

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

# 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 ≤ 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")
Net Weight	530 g (1.1 lb)
Gross Weight	800 g (1.7 lb)

Ordering Information					
Туре	Part Number	Description			
8MP Camera	DH-IPC- HDW2831EM- AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera,PAL			
	PFA130-E	Junction Box			
	PFB204W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	Cell 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:



PFA130-E Junction Box



PFA106 Mount Adapter



PFB204W Wall Mount





PFA152-E Pole Mount



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Ceiling Mount	Wa <b>ll</b> Mount	Celling Mount
Pole Mount(Vertical)		

# Dimensions (mm[inch])



