

# DH-IPC-HDW2831TM-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
- · 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 (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  $1\,\mathrm{m}$  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.

Technical S	Specification						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×
Technical Specification  Camera							2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536);
Image Sensor		1/2.7" 8Meg	apixel progres	sive CMOS		Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Max. Resolution		1/2.7" 8Megapixel progressive CMOS 3840 (H) ×2160 (V)					576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB				Bit Rate Control	CBR/VBR
RAM						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/Manua	al 1/3 s–1/100,	.000 s		BLC	Yes
Min. Illuminati	on	0.009 Lux@f	2.0			HLC	Yes
S/N Ratio		>56 dB				WDR	120 dB
Illumination Di	istance	30 m (98.43	30 m (98.43 ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illuminator On	/Off Control	Auto/Manua					custom Auto/Manual
						Gain Control	Auto/Manual
Illuminator Nu	mber		2 (IR LED)			Noise Reduction	3D NR
Pan/Tilt/Rotati	ion Range	Pan: 0°–360° Tilt: 0°–78°				Motion Detection	OFF/ON (4 areas, rectangular)
Long		Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens		Fined family				Smart Illumination	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 3840 × 2160 resolution and lower.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm 3.6 mm				Privacy Masking	4 areas
Max. Aperture		F2.0 F2.0				Audio	
Field of View		2.8 mm: Pan 105° × Tilt 56° × Diagonal 125°				Built-in MIC	Yes
			3.6 mm: Pan 87° × Tilt 47° × Diagonal 104°			Audio Compression	G.711A; G.711Mu; G.726
Iris Type		Fixed				Alarm	
Close Focus Dis	stance	2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)					No SD card; SD card full; SD card error; network
	Lens	Detect	Observe	Recognize	Identify	Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
DORI Distance	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)	Network	, , , ,
	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)	Network	RJ-45 (10/100 Base-T)
Smart even			(140.111)	(05.011)	(55.110)	SDK and API	Yes
	ic	Tripwire, inte	rusion				Video encryption; firmware encryption; configuration
IVS		Tripwire; intrusion				Cyber Security	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
Video		H.265; H.264; H.264B; MJPEG (only supported by the					
Video Compression		sub stream)				Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
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:				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
		704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)				User/Host	20
Stream Capability		2 streams				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP

# Lite Series | DH-IPC-HDW2831TM-AS-S2

Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

### Certification

	CE-LVD: EN62368-1
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

### 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	99.1mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.65 kg (1.4 lb)

Ordering Information				
Туре	Part Number	Description		
8MP Camera	DH-IPC- HDW2831TMP- AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera,PAL		
own current	DH-IPC- HDW2831TMN- AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera, NTSC		
	PFA130-E	Junction Box		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
Accessories (optional)	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

PFB203W ox Wall Mount

W PFA152-E unt Pole 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	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

## Dimensions (mm[inch])

