

DH-IPC-HDW2831TM-AS-S2

8MP Lite IR Fixed-focal Eyeball Network Camera



- · 8MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- \cdot 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
- · 12 V 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 cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 S	Specification	า					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×
Camera					2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536);		
Image Sensor		1/2.7" CMOS	1/2.7" CMOS			Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Max. Resolution		3840 (H) ×21	.60 (V)				576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 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	em	Progressive				Day/Night	Auto (ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manua	Auto/Manual 1/3 s-1/100,000 s			BLC	Yes
Min. Illuminat	ion	0.009 Lux@F	2.0			HLC	Yes
S/N Ratio		> 56 dB	> 56 dB			WDR	120 dB
Illumination D	istance	30 m (98.43	30 m (98.43 ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illuminator Or	n/Off Control	Auto/Manua	ıl			Gain Control	custom Auto/Manual
Illuminator Nu		2 (IR LED)				Noise Reduction	3D NR
aa.co.		Pan: 0°-360°	,			Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°			Region of Interest(RoI)	Yes (4 areas)
Lens						Smart Illumination	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower.)
Mount Type	Mount Type		M12			Mirror	Yes
Focal Length		2.8 mm 3.6 mm					
			F2.0			Privacy Masking	4 areas
Max. Aperture	2	F2.0				Audio	
Field of View			2.8 mm: Pan 105° × Tilt 56° × Diagonal 125° 3.6 mm: Pan 87° × Tilt 47° × Diagonal 104°			Built-in MIC	Yes
Iris Type		Fixed				Audio Compression	G.711A; G.711Mu; G.726
Close Focus D	istanco	2.8 mm: 1.0	2.8 mm: 1.0 m (3.3 ft)			Alarm	
Close Focus D	Lens	3.6 mm: 1.9 Detect	m (6.2 ft) Observe	Recognize	Identify	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage
DORI	2.8 mm	74.7 m	29.9 m	14.9 m	7.5 m		detection; audio detection; safety exception
Distance	2.0	(245.1 ft) 106.7 m	(98.1 ft) 42.7 m	(48.9 ft) 21.3 m	(24.6 ft) 10.7 m	Network	
	3.6 mm	(350.1 ft)	(140.1 ft)	(69.6 ft)	(35.1 ft)	Network	RJ-45 (10/100 Base-T)
Smart event						SDK and API	Yes
IVS		Tripwire; intr	Tripwire; intrusion				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 ungrade.
Video						Cyber Security	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			orted by the	Protocol	trusted execution; trusted upgrade 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+ Main stream:					
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	12 V DC/PoE (802.3af)
Power Consumption	< 7.2 W

Environment

Operating Conditions	-40°C to +55 $^{\circ}\text{C}$ (-40°F to +131 $^{\circ}\text{F}$)/less than \leq 95% RH
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67

Structure

Casing	Metal	
Dimensions	99.1 mm × 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 cumera	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		
(1)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Accessories

Optional:



PFA130-E





PFA152-E

Pole Mount

Junction Box

PFB203W Wall Mount





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



PFM900-E Integrated Mount Tester



DC12V1A

Power Adapter

PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

Dimensions (mm[inch])

