

DH-IPC-HDW2831T-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 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.

Camera		o						2040 v 2100 /2040 v 2100 v 2072 2040 /2072
No. Part	Technical Specification					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 3688 × 1530 (3688 × 1530); 3M (2048 × 1536);		
Marka Revolution	Camera						Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080);
Max	Image Sensor			1/2.7" 8Megapixel progressive CMOS				576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
RAM RAM RAM RAM RAM RAM RAM RAM	Max. Resolution		3840 (H) × 2160 (V)				Bit Rate Control	•
RAM	ROM		128 MB					
Bit Section Shutter Speed Auto-Manual 1/3 s - 1/10,000 0 5 Bit Ves	RAM		256 MB	256 MB			Video Bit Rate	
Min.	Scanning System		Progressive	Progressive			Day/Night	Auto(ICR)/Color/B/W
Similar Simi	Electronic Shutter Speed		Auto/Manua	Auto/Manual 1/3 s–1/100,000 s			BLC	Yes
Blumination Distance 30 m p8.43 Ft	Min. Illumina	tion	0.009 Lux@F2.0				HLC	Yes
Sum	S/N Ratio		>56 dB				WDR	120 dB
Mount Number 2 (B I I I I I I I I I I I I I I I I I I	Illumination [Distance	30 m (98.43	30 m (98.43 ft)			White Balance	
Pan/Titl/Rotation Range	Illuminator O	n/Off Control	Auto/Manua	Auto/Manual			Gain Control	Auto/Manual
Pan/Till/Rotation Range	Illuminator N	umber	2 (IR LED)				Noise Reduction	3D NR
Lens	Pan/Tilt/Rota	tion Range					Motion Detection	OFF/ON (4 areas, rectangular)
Image Rotation	Pari/ Till/Notation Natige						Region of Interest(RoI)	Yes (4 areas)
Mount Type	Lens						Smart Illumination	Yes
Mirror Yes	Lens Type		Fixed-focal				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 3840×2160 resolution and lower.)
Privacy Masking A areas	Mount Type						Mirror	Yes
Field of View Fix Tilt 47* x Diagonal 125* 3.6 mm; Pan 87* x Tilt 47* x Diagonal 104* Audio Compression G.711A; G.711Mu; G.726	Focal Length						Privacy Masking	4 areas
Field of View 2.8 mm. Pan 105' × Tilt 56' × Diagonal 125' 3.6 mm: Pan 87' × Tilt 47' × Diagonal 104' Audio Compression G.711A; G.711Mu; G.726	Max. Aperture						Audio	
Audio Compression G.711A; G.711Mu; G.726			2.8 mm: Pan	2.8 mm· Pan 105° v Tilt 56° v Diagonal 125°			Built-in MIC	Yes
Close Focus Distance 2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft) Lens Detect Dosrve Recognize Identify DoRI Distance 2.8 mm 106.7 m (245.1 ft) (98.1 ft) (48.9 ft) (24.6 ft) 3.6 mm 106.7 m (350.1 ft) (140.1 ft) (69.6 ft) (35.1 ft) Tripwire; intrusion IVS Tripwire; intrusion Video Tripwire; intrusion Video Compression H.265; H.264; H.2648; MJPEG (only supported by the sub stream) Smart Codec Smart Lode: Smart Lode: Smart Lode: Smart Lode: Mo SD card; SD card full; SD card error; network disconnection; IP conflict, motion detection; video tampering; tripwire; intrusion, illegal access; voltage detection; audio detection; safety exception Network Network Network RJ-45 (10/100 Base-T) SDK and API Yes Video encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syloge; HTPS; 802.1x; trusted boot; trusted execution; trusted upgrade Video Compression Video Frame Rate Network Protocol Protocol Protocol Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec User/Host 20 Storage FTP, SFTP; Micro SD Card (support max. 256 GBI); NAS	Field of View		_				Audio Compression	G.711A; G.711Mu; G.726
Lens Detect Detect Deserve Recognize Identify Alarm Event Identify DORI Distance Lens Detect Deserve Recognize Identify Recognize Identify Dori Alarm Event Distance Lens Detect Deserve Recognize Identify Recognize Identify Dori Alarm Event Distance Lens Detect Deserve Recognize Identify Recognize Identify Deserve Recognize Identify Deserve Recognize Identify Deserve Recognize Identify Recognize Identify Deserve Identify Identify Identify Deserve Identify Deserve Identify Deserve Identify Identify Identify Deserve Identify Id	Iris Type		Fixed				Alarm	
Lens	Close Focus D	istance	, ,				Alarm Event	disconnection; IP conflict; motion detection; video
Distance 2.8 mm (245.1 ft) (98.1 ft) (48.9 ft) (24.6 ft) (24.6 ft) (35.1 f		Lens	Detect	Observe	Recognize	Identify	tampering; tripwire; intrusion; illegal access;	
Network RJ-45 (10/100 Base-T) Note As (10/100 Base-T) Network RJ-45 (10/100 Base-T) Note As (10/100 Base-T) Network RJ-45 (10/100 Base-T) Note As (10/100 Base		2.8 mm					Network	
Smart event IVS Tripwire; intrusion Cyber Security Cyber Security Cyber Security 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-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) SDK and API Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.5.09 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour Video Frame Rate Video Frame Rate Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Protocol Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec User/Host 20 Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	Distance	3.6 mm	106.7 m	42.7 m	21.3 m	10.7 m	Network	RJ-45 (10/100 Base-T)
Video Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Main stream: Main stream: 3840 × 2160 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25/9s) 704 × 480 (1 fps-30 fps) Video Compression Tripwire; intrusion Cyber Security Cyber Jerused execution; trusted execution; trusted execution; trusted port, trusted port, trusted port, trusted port, page in property, page and page in property, page in			(350.1 ft)	(140.1 ft)	(69.6 ft)	(35.1 ft)	SDK and API	Yes
Video Compression 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 Protocol Proto		nt						
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Protocol 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) Storage 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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec User/Host 20 Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS			Tripwire; intrusion				Cyber Security	logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot;
Video Compression sub stream) IPv4; IPv6; HTTP; TCP; UDP; ARP; RTCP; RTCP; Smart Codec Smart H.265+/ Smart H.264+ Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour Video Frame Rate 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) Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec Video Frame Rate User/Host 20 Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS			LI 265, LI 264, LI 2640, MIDEC (only supported by the			orted by the		
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) Storage Storage Storage Bonjour ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec September 20 Wilestone; Genetec Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS			sub stream)			orted by the	Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;
Video Frame Rate 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) Storage Storage Storage ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec User/Host 20 FTP; SFTP; Micro SD Card (support max. 256 GB); NAS								
704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) Storage User/Host 20 FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	Video Frame Rate		3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps)				Interoperability	
Stream Capability 2 streams Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS			704 × 576 (1 fps–25 fps)				User/Host	20
	Stream Capability		2 streams				Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS

Lite Series | DH-IPC-HDW2831T-AS-S2

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

Certification

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 + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information			
Туре	Part Number	Description	
8MP Camera	DH-IPC- HDW2831TP-AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera,PAL	
own camera	DH-IPC- HDW2831TN-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	
(optional)	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 Wall Mount

PFA152-E Pole Mount





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



PFM900-E Integrated Mount Tester

Powe	r Adapter
	Olhua TLC 256

DC12V1A

PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFB203W

Dimensions (mm[inch])



