

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
- · Support Triple Stream
- · 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.

Technical Specification					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2592 × 1944 (2592 × 1044); 3688 × 1570 (3688 × 1570); 304 (3048 × 1570);		
Camera						Resolution	1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080);
Image Sensor		1/2.7" 8Meg	apixel progres	ssive CMOS			1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Max. Resolution		3840 (H) × 2	160 (V)			Bit Rate Control	× 240) CBR/VBR
ROM		128 MB	128 MB				H.264: 32 kbps–8192 kbps
RAM		256 MB	256 MB			Video Bit Rate	H.265: 12 kbps–8192 kbps
Scanning Syst	em	Progressive	Progressive			Day/Night	Auto(ICR)/Color/B/W
Electronic Shu	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s			BLC	Yes
Min. Illuminat	tion	0.009 Lux@l	0.009 Lux@F2.0			HLC	Yes
S/N Ratio		>56 dB				WDR	120 dB
Illumination D	Distance	30 m (98.43	30 m (98.43 ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator O	n/Off Control	Auto/Manua	Auto/Manual			Gain Control	Auto/Manual
Illuminator No	umber	2 (IR LED)				Noise Reduction	3D NR
Pan/Tilt/Rota	tion Range	Pan: 0°-360' Tilt: 0°-78°				Motion Detection	OFF/ON (4 areas, rectangular)
Tany mity Nota	tion nange	Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens						Smart Illumination	Yes
Lens Type		Fixed-focal	Fixed-focal			Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Supports $90^\circ/270^\circ$ with 3840×2160 resolution and lower.)
Mount Type		M12	M12			Mirror	Yes
Focal Length	Focal Length		2.8 mm 3.6 mm			Privacy Masking	4 areas
Max. Aperture	Max. Aperture		F2.0 F2.0			Audio	
			F2.0			Built-in MIC	Yes
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
Iris Type		Fixed				Alarm	
Close Focus D	Close Focus Distance		2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)			Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
	Lens	Detect	Observe	Recognize	Identify	Ta	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	
Distance	3.6 mm	106.7 m	42.7 m	21.3 m	10.7 m	Network	RJ-45 (10/100 Base-T)
3.6 111111		(350.1 ft)	(140.1 ft)	(69.6 ft)	(35.1 ft)	SDK and API	Yes
Smart eve	nt						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							
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			orted by the	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: 704 × 576 (1 fps-25 fps); 704 × 480 (1 fps-30 fps) Third stream: CIF@1fps				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
					s-30 fps)	User/Host	20
Stream Capability		3 streams				Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Stream Capability							

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])



