

DH-IPC-HDW2831T-AS-S2

8MP Lite IR Fixed-focal Eyeball Network Camera



- · Outputs max. 8MP (3840 × 2160) @15 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps

· 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition

- · 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 DNR, 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 support
- · IP67 protection













System 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 to the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Codec

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

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical S	necification						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" 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 × 240)
Effective Pixels		3840 (H) × 2160 (V)					
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	m	Progressive				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/Manua	al			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR LEDs Numbe	er	2				Gain Control	Auto/Manual
Pan/Tilt/Rotati	ion Range	Pan: 0°-360° Tilt: 0°-78°	D			Noise Reduction	3D DNR
Tany They Notati	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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Focal Length		2.8 mm 3.6 mm				Mirror	Yes
Max. Aperture		F2.0 F2.0				Privacy Masking	4 areas
F:- - -f\/:		2.8 mm: Pan	105° × Tilt 56	° × Diagonal 12	15°	Audio	
Field of View		3.6 mm: Pan	87° × Tilt 47°	× Diagonal 104	•	Built-in MIC	Yes
Iris Type		Fixed				Audio Compression	G.711A; G.711Mu; G.726; AAC
Close Focus Dis	stance	2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)				Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
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)	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				Browser	IE Chrome
Smart Codec		Yes					Firefox
S.mar. Godes						Management Software Mobile Phone	Smart PSS; DSS; DMSS
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)					IOS; Android
						Certification Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Stream Capabi	Stream Capability		2 streams				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 +60°C (-40°F to +140°F)/less than \leq 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		
	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		
, ,	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



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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

Dimensions (mm[inch])





