

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 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 Specification Camera						Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080);
Image Sensor		1/2.7" 8Megapixel progressive CMOS				Resolution	1.3M (1280 × 960); 720p (1280 × 720); DI (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Effective Pixels		3840 (H) ×2160 (V)					× 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 System		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/Manual				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR LEDs Numb	er	2				Gain Control	Auto/Manual
Pan/Tilt/Rotat	ion Range	Pan: 0°-360° Tilt: 0°-78°	,			Noise Reduction	3D DNR
rany mity Notal	ion Kange	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°/90°/180°/270° (Supports 90°/270° 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
			105° v Tilt 56	°× Diagonal 12	ς°	Audio	
Field of View				× Diagonal 104		Built-in MIC	Yes
Iris Type		Fixed				Audio Compression	G.711A; G.711Mu; G.726; AAC
Close Focus Di	stance	2.8 mm: 1.0	, ,			Network	
0.000 1 0000 0	oranio c	3.6 mm: 1.9 m (6.2 ft)				Network	RJ-45 (10/100 Base-T)
DORI Distance	Lens 2.8 mm	74.7 m (245.1 ft)	Observe 29.9 m (98.1 ft)	Recognize 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 ever	Smart event					User/Host	20
General IVS A	nalytics	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 Firefox
Smart Codec		Yes				Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps)				Mobile Phone	IOS; Android
						Certification	
Video Frame Rate		Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)				Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Stream Capability		2 streams					FCC: 47 CFR FCC Part 15, Subpart B

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	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
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		
Sivii Cumeru	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



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	PFB152-E+PFA203W

Dimensions (mm[inch])



