

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 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
- · 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.



Camera 2048; 3072 x1728 (3072 x1728) (3072 x1	Technical	Specification						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 ×
12.7 Mode general 12.7 Mode general programme CAOSS	Technical Specification							2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 ×
File			1/2 7" 8Meg	1/3 7" 9Maganiyal progressiya CMOS			Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
ROM	-							
Mode		3					Bit Rate Control	CBR/VBR
Searing System							Video Bit Rate	· · · · · · · · · · · · · · · · · · ·
Bectome Shutter Speed								
Min.			-					
MONE		•	Auto/Manual 1/3 s–1/100,000 s					
Reproduction Repr	Min. Illuminat	ion	0.009 Lux@F2.0				HLC	Yes
R O/ROT Control R LEDN Number 2 Pan/ 0 - 360" Pan/ 111/ 50 - 78" Pan/ 111/ 50 - 7	IR Distance		30 m (98.43	ft)			WDR	
Pan/Till/Rotation Range Pan: 0"—360" Tilt: 0"—260" Motion Detection DF/ON (4 areas, rectangular)	IR On/Off Con	trol	Auto/Manual				White Balance	
Pan/Till/Rotation Range	IR LEDs Numb	er	2				Gain Control	Auto/Manual
Lens	Pan/Tilt/Rotat	tion Range					Noise Reduction	3D DNR
Smart IR	rany mity notation kange						Motion Detection	OFF/ON (4 areas, rectangular)
Mount Type	Lens						Region of Interest(RoI)	Yes (4 areas)
Focal Length	Lens Type		Fixed-focal				Smart IR	Yes
Max. Aperture	Mount Type		M12				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Record Field of View Fixed Samm: Pan 105" x Tilt 56" x Diagonal 125" 3.6 mm: Pan 105" x Tilt 47" x Diagonal 104" Sulfi-in MIC No	Focal Length						Mirror	Yes
Field of View	Max. Aperture						Privacy Masking	4 areas
Risk Similar			2.8 mm: Pan	2.8 mm· Pan 105° x Tilt 56° x Diagonal 125°			Audio	
Close Focus Distance 3.8 mm; 1.0 m (3.3 ft) 3.6 mm; 1.9 m (6.2 ft) 1.9 m (7.5 m (24.5 ft) (98.1 ft) (48.9 ft) (24.6 ft) (24.6 ft) 2.8 mm 10.6 7 m (350.1 ft) (98.1 ft) (48.9 ft) (24.6 ft) (35.1 ft) 10.7 m (350.1 f	Field of View		3.6 mm: Pan	87° × Tilt 47°	× Diagonal 104	•	Built-in MIC	No
Lens	Iris Type		Fixed				Audio Compression	G.711A; G.711Mu; G.726; AAC
Lens Detect Observe Recognize Identify	Close Focus D	istance	,				Network	
DORI DORI 2.8 mm		Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
Smart event General IVS Analytics Tripwire; intrusion Video Video Compression H.265; H.2648; MJPEG 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) For the stream of		2.8 mm	74.7 m (245.1 ft)	(98.1 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)	Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE;
Smart event General IVS Analytics Tripwire; intrusion Video Video Video Compression H.265; H.264; H.264B; MJPEG Smart Codec Yes 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) Certifications Viser/Host 20 Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS IE Chrome Firefox Management Software Mobile Phone Cortification Certification Certification Certification Certifications		3.6 mm					Interoperability	
VideoDahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NASVideo CompressionH.265; H.264; H.264B; MJPEGBrowserIE Chrome FirefoxSmart CodecYesManagement SoftwareSmart PSS; DSS; DMSSMain 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)Mobile PhoneIOS; AndroidCertificationCertificationCertificationsCertifications	Smart event						User/Host	
Video Compression H.265; H.264; H.264B; MJPEG Browser E	General IVS Analytics		Tripwire; intrusion				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max.
Video Compression H.265; H.264; H.264B; MJPEG Browser Chrome Firefox Management Software Main stream: 3840 × 2160 (1 fps-15 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-30 fps) 704 × 480 (1 fps-30 fps) Certifications Certifications Certifications Certifications Certifications	Video						Euke siolake	· ·
Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–30 fps) 704 × 480 (1 fps–30 fps) Certification Certifications	Video Compression		H.265; H.264; H.264B; MJPEG				Browser	Chrome
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) Certification CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive Certifications Certifications	Smart Codec		Yes				Management Software	Smart PSS; DSS; DMSS
Substream			Main stream:				Mobile Phone	IOS; Android
Sub stream: 704 × 576 (1 fps—25 fps) 704 × 480 (1 fps—30 fps) Certifications Certifications CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	Video France Bata		3840 × 2160 (1 fps-15 fps)				Certification	
	Video Frame Rate		Sub stream: 704 × 576 (1 fps–25 fps)				Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	Stream Capab	Stream Capability		2 streams				

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			
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			
(======================================	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])





