

DH-IPC-HDW2431TM-AS-S2

4MP Lite IR Fixed-focal Eyeball Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 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 disconnected, 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Image Sensor	Image Sensor		pixel progress	ive CMOS		Bit Rate Control	× 240) CBR/VBR
Max. Resolution		2688 (H) × 1520 (V)				Video Bit Rate	H.264: 32 kbps-6144 kbps
ROM		128 MB					H.265: 12 kbps-6144 kbps
RAM	RAM					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illumination		0.008 Lux @ F1.6				WDR	120 dB
S/N Ratio	S/N Ratio					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination [Distance	30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator O	n/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator N	umber	2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Don/Tilt/Doto	tion Dongs	Horizonal: 0				Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rota	tion Kange	Vertical: 0°–78° Rotation: 0°–360°				Smart Illumination	Yes
Lens						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12 2.8 mm				Privacy Masking	4 areas
Focal Length	Focal Length					Audio	
Max. Apertur	Max. Aperture					Built-in MIC	Yes
						Audio Compression	G.711A; G.711Mu; G.726
Field of View	Field of View		02.0° × Vertica	_		Alarm	
Inia Trans			4.0° × Vertical	45.U × Diagor	iai 100.0		No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Iris Type		2.8 mm: 0.9 m (2.95 ft)				Alarm Event	tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
Close Focus D	Close Focus Distance		m (3.61 ft)			Network	, , , ,
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	SDK and API	Yes
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		Video encryption; firmware encryption; configuration
Smart event		,	(202.17 11) (201.33 11) (20.23 11)			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;
IVS		Tripwire; intrusion					trusted execution; trusted upgrade
Video Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				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+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
		Main stream:				User/Host	20
Video Frame	Video Frame Rate		0 (1 fps-20 fps) 0 (1 fps-25/30 f			Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Browser	IE Chrome Firefox
Stream Capability		2 streams				Management Software	Smart PSS; DSS; DMSS

Lite Series | DH-IPC-HDW2431TM-AS-S2

Mobile Phone	IOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU 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	< 6.6W
Environment	
Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67
Structure	
Casing	Metal
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.65 kg (1.4 lb)

Ordering Information							
Туре	Part Number	Description					
4MP Camera	DH-IPC- HDW2431TMP-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, PAL					
nvii cumeru	DH-IPC- HDW2431TMN-AS-S2	4MP 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



PFB203W Wall Mount



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

Dimensions (mm[inch])

