

DH-IPC-HDW2431T-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 coding, high compression ration, 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
- · Max. 256 GB SD card and 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+

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Tochnical	Specification						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×
Camera					Resolution	1440); 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	
Image Sensor		1/3" 4Megapixel progressive CMOS					× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
RAM		128 MB				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		>56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Distance		30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator Or	n/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Nu	ımber	2 (IR LED)				Motion Detection	Disable/Enable (4 areas, rectangle)
Dan/Tilt/Potation Pages		Pan: 0°–360° Tilt: 0°–78°				Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		Rotation: 0°-	–360°			Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm				Audio	
Max. Aperture		F1.6 F1.6				Built-in MIC	Yes
		2.8 mm:				Audio Compression	G.711A; G.711Mu; G.726
Field of View		Horizontal 102.0° × Vertical 55.0° × Diagonal 121.0° 3.6 mm:				Alarm	
		Horizontal 84.0° × Vertical 45.0° × Diagonal 100.0°					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Iris Type		Fixed				Alarm Event	detection; video tampering; tripwire; intrusion; voltage detection; security exception
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 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
Distance	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)	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
Smart ever					Cyber Security	X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
IVS		Tripwire; intrusion					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video		Hage Hage Hage A Mappe				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P;
Smart Codec		Smart H.265+/ Smart H.264+					Milestone; Genetec
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream:				User/Host	20
						Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Browser	Google Firefox
Stream Capability		2 streams				Management Software	Smart PSS; DSS; DMSS

Lite Series | DH-IPC-HDW2431T-AS-S2

Lite Series DH-IPC-HDW24311-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				
Power Consumption	Basic power consumption: 2.1W (12V DC), 2.5W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.7W (12V DC), 6.6W (POE)				
Environment					
Operating Temperature	-40°C to +60°C (-40°F to +140°F)				
Operating Humidity	≤95%				
Storage Temperature	-40°C to +60°C (-40°F to +140°F)				

Protection Structure

Storage Humidity

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.86 lb)
Gross Weight	0.52 kg (1.15 lb)

≤95% IP67

Ordering Information							
Туре	Part Number	Description					
4MP Camera	DH-IPC- HDW2431TP-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera,PAL					
iivii cumeru	DH-IPC- HDW2431TN-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC					
	PFA130-E	Junction Box					
	PFB203W	Wall Mount					
	PFA152-E	Pole Mount					
Accessories	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:









PFA152-E

Pole Mount

PFA130-E Junction Box

I30-E on Box

Na.

PFB203W

Wall Mount

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

Coax Extende

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PFM900-E Integrated Mount Tester



DC12V1A

Power Adapter

PFM114 TLC SD card

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

Dimensions (mm[inch])



