

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.



Resolution 2688 × 1520 (2688 × 1520); 2560 × 14	80p (1920 × × 720); D1 (704 F (352 × 288/352
Limage Sensor 1/3" 4Megapixel progressive CMOS Bit Rate Control ER/VBR	F (352 × 288/352
Image Sensor If 3" 4Megapixel progressive CMOS Max. Resolution 2688 (H) × 1520 (V) ROM 128 MB Progressive Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illumination S/N Ratio S/N Ratio John (198.43 ft) Illuminator On/Off Control Auto/Manual Illuminator Number Pan: 0"-360" Tilt: 0"-78" Tilt: 0"-78" Bit Rate Control Video Bit Rate H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 kbps H.26 HLC Yes World Noise Reduction Disable/Enable (4 areas, rectangle) Regio	inual/regional
Max. Resolution 2688 (H) × 1520 (V) ROM 128 MB Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s Min. Illumination 5/N Ratio 256 dB White Balance White Balance White Balance Muto/Manual Motion Distance Illuminator On/Off Control Auto/Manual Auto/Manual Auto/Manual Noise Reduction Disable/Enable (4 areas, rectangle) Pan/Tilt/Rotation Range Pan: 0*-360* Tilt: 0*-78* Video Bit Rate Video Bit Rate H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps H.264: 32 kbps-6144 k	ınual/regional
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/macustom Illumination Distance 30 m (98.43 ft) Gain Control Auto/Manual Illuminator On/Off Control Auto/Manual Noise Reduction 3D NR Illuminator Number 2 (IR LED) Motion Detection Disable/Enable (4 areas, rectangle) Pan/Tilt/Rotation Range Pan: 0°-360° Tilt: 0°-78° Region of Interest(RoI) Yes (4 areas)	inual/regional
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Illuminator Number 2 (IR LED) Motion Detection Disable/Enable (4 areas, rectangle) Pan: 0°-360° Region of Interest(Rol) Yes (4 areas)	
Pan: 0°–360° Region of Interest(Rol) Yes (4 areas) Pan/Tilt/Rotation Range Tilt: 0°–78°	
Pan/Tilt/Rotation Range Tilt: 0°–78°	
Potation, 0° 200°	
Smart Illumination Yes	
Lens O°/90°/180°/270° (Supports 90°/270° v resolution.)	with 2688 × 1520
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 Built-in MIC Yes	
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 disconnection; IP conflict; illegal access detection; video tampering; tripwire; detection; security exception	ss; motion
Close Focus Distance 2.8 mm: 0.9 m (2.95 ft)	
3.6 mm: 1.6 m (3.61 ft) Lens Detect Observe Recognize Identify Network RJ-45 (10/100 Base-T)	
DORI 56m 224m 112m 56m 20% Lan	
Distance 2.8 mm (183.73 ft) (73.49 ft) (36.75 ft) (18.37 ft) SDK and API Yes 2.8 mm Video encryption; firmware encryption	n: configuration
3.6 mm (262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft) encryption; Digest; WSSE; account loc Cyber Security logs; IP/MAC filtering; generation and X.509 certification; syslog; HTTPS; 802	kout; security importing of
IVS Tripwire; intrusion	.ix, trastea boot,
Video Protocol Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP , Video Protocol UPnP; NTP; SMTP; FTP; DHCP; DNS; I UPnP; NTP; SNMP; Multicast; ICMP; IC	DDNS; QoS;
Video Compression H.265; H.264; H.264B; MJPEG(only supported by sub stream) PPPOE;Bonjour	CL D2D
Smart Codec Smart H.265+/Smart H.264+ Interoperability ONVIF (Profile S/Profile G/Profile T); Compared to the control of the c	31; PZP;
Main stream: User/Host 20	
2688 × 1520 (1 fps-20 fps) Video Frame Rate 2688 × 1520 (1 fps-25/30 fps) Storage FTP; Micro SD card (support max. 256	G); NAS; SFTP
Sub stream: IE 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-HDW2431T-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	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)			
Storage Humidity	≤95%			

Protection Structure

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)

IP67

Ordering Information				
Туре	Part Number	Description		
4MP Camera	DH-IPC- HDW2431TP-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera,PAL		
	DH-IPC- HDW2431TN-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC		
Accessories	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		

Accessories

Optional:



PFA130-E

Junction Box

PFM321D

DC12V1A

Power Adapter





PFA152-E

Pole Mount

PFB203W Wall Mount



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

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PFM900-E Integrated Mount Tester



PFM114 TLC SD card

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

Dimensions (mm[inch])



