

DH-IPC-HDW2431T-ZS-S2

4MP Lite IR Vari-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: 40 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
- 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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.





Technical Sp	ecificatio	on					Bit Rate Control	CBR/VBR
Camera						Video Bit Rate H.264: 32 kbps-6144 kbps		
Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	H.265: 12 kbps-6144 kbps Auto(ICR)/Color/B/W
Max. Resolution		2688 (H) × 1520 (V)					•	` " ' '
ROM		128 MB					BLC	Yes
RAM		128 MB					HLC	Yes
							WDR	120 dB
Scanning System Flectronic Shutter Speed		Progressive Auto/Manual 1/3 s–1/100000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed Min Illumination							Gain Control	Auto/Manual
Min. Illumination		0.008 Lux@F1.5					Noise Reduction	3D NR
S/N Ratio		>56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dist		40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/C		Auto/Manual					Smart Illumination	Yes
Illuminator Number		2 (IR LED) Pan 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Alarm	
Mount Type Focal Length		φ14 2.7 mm–13.5 mm					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Max. Aperture		F1.5				Alaini Event	tampering; tripwire; intrusion; illegal access; voltage detection; safety exception;	
Field of View		Horizontal: 104°–27° Vertical: 55°–15°					Network	
Iris Type		Diagonal: 124°–31° Fixed					Network	RJ-45 (10/100 Base-T)
			(2.62 ft 2.62 ft				SDK and API	Yes
Close Focus Distance Lens		Detect	(2.62 ft–2.62 ft Observe	Recognize	Identify		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)			execution; trusted upgrade
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		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 Event							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
IVS		Tripwire; intrusion						Genetec
Video							User/Host	20
Video Compress	ion	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE Chrome Firefox
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Management Software	Smart PSS; DSS; DMSS
							Mobile Phone	IOS; Android
								,
Stream Capability		2 streams					Certification	
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 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 × 240)					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



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

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.4W

Environment

Operating Conditions	-30°C to +60°C (-22°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
Dimensions	108.3 mm × Φ122 mm (4.26" × Φ1.80")
Net Weight	0.69 kg (1.52 lb)
Gross Weight	0.88 kg (1.94 lb)

Ordering Information Type Part Number Description 4MP Lite IR Vari-focal Eyeball DH-IPC-HDW2431TP-ZS-S2 Network Camera,PAL 4MP Camera 4MP Lite IR Vari-focal Eyeball DH-IPC-HDW2431TN-ZS-S2 Network Camera, NTSC PFA130-E Junction Box PFB203W Wall Mount PFA106 Mount Adapter PFB220C Ceiling Mount Accessories PFA152-E Pole Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA130-E Junction Box



PFB203W Wall Mount

PFA106 Mount Adapter





PFB220C Ceiling Mount



PFA152-E Pole Mount



DC12V1A Power Adapter

PFM321D



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

PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount
PFA130-E	PFB203W	PFA106+PFB220C	PFB203W+PFA152-E

Dimensions (mm[inch])







