

DH-IPC-HDW2431T-ZS-S2

4MP WDR IR 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 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 disconnected, 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 camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function , complying to the standards of IP67.

Functions

Smart(H.265+ & 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.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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.



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

Technical Specification

Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Effective Pixels		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.008 Lux@F1.5			
IR Distance		40 m (131.23 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2			
Pan/Tilt/Rotation Range		Pan 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		Pan: 104°–27° Tilt: 55°–15° Diagonal: 124°–31°			
Iris Type		Fixed aperture			
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
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)
	т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)
Smart Event					
General IVS Analytics		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG			

VIGEO	
Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
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)
Stream Capability	2 streams
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)
Bit Rate Control	CBR/VBR

Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom				
Gain Control	Auto/Manual				
Noise Reduction	3D DNR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest(RoI)	Yes (4 areas)				
Smart IR	Yes				
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)				
Mirror	Yes				
Privacy Masking	4 areas				
Network					
Network	RJ-45 (10/100 Base-T)				
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour				
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec				
User/Host	20				
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS				
Browser	IE Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
Certifications	CE-LVD: EN60950-1 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	< 6.4W				
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				

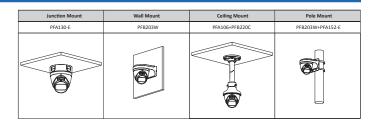
Lite Series | DH-IPC-HDW2431T-ZS-S2

Structure

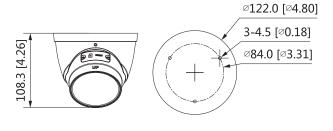
Casing	Metal
Dimensions	108.3 mm × Φ122 mm (4.26" × Φ1.80")
Net Weight	0.69 kg (1.52 lb)
Gross Weight	0.88 kg (1.94 lb)

Ordering Information

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDW2431TP-ZS-S2	4MP WDR IR Eyeball Network Camera,PAL	
	DH-IPC-HDW2431TN-ZS-S2	4MP WDR IR Eyeball Network Camera,NTSC	
Accessories (optional)	PFA130-E	Junction Box	
	PFB203W	Wall Mount	
	PFA106	Mount Adapter	
	PFB220C	Ceiling 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	



Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Junction Box



PFB220C Ceiling Mount



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



PFB203W Wall Mount



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFA106 Mount Adapter



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card



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