

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		0.01 Lux@F1.5				
IR Distance		40 m (131.23 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 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		Horizonal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°				
Optical Zoom		5 times				
Iris Type		Fixed				
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		Intrusion; tripwire				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG				
Smart Codec		H.264: Yes H.265: 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				

Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps		
Day/Night	ICR switch		
BLC	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.)		
Mirror	Yes		
Privacy Masking	4 areas		
Network			
Network	RJ-45 (10/100 Base-T)		
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP		
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		
User/Host	20		
Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS		
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		
Power Consumption	< 6.4W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/ less than $\leq 95\%$		
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)		

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)

CBR/VBR

Resolution

Bit Rate Control

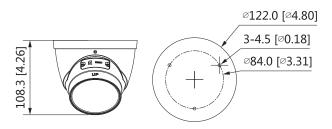
Lite Series | DH-IPC-HDW2431T-ZS-S2

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

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PFB203W

Wall Mount

PFA152-E Pole Mount



PFM900-E Integrated Mount tester



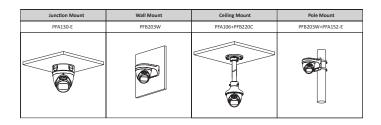
PFA106

Mount Adapter

PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



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