

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 coding, high compression ration, 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 tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Max. 256 GB 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

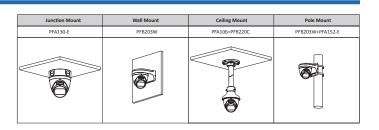
Camera					
Image Sensor		1/3" CMOS			
Effective Pixels		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.01 Lux@F1.6			
IR Distance		40 m (131.23 ft) (IR)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 0°–67° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.6			
Field of View		Horizonal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°			
Optical Zoom		5 times			
Iris Type		Fixed			
Close Focus Dista	ince	0.8m–0.8m (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	50Hz Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps) 60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)			
Stream Capability	Main stream; sub stream			
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	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	Disable/Enable (4 areas, rectangle)			
Region of Interest(Rol)	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 (max. 256 GB); NFS			
Browser	IE Google 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: UL60950-1 CAN			
Power				
Power Supply	12V DC/POE			
Power Consumption	Basic power consumption: 1.9W (12V DC), 2.2W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.5W (12V DC), 6.4W (POE)			
Environment				
Operating Temperature	-30°C to +60°C (-22°F to +140°F)			
Operating Humidity	≤95%			
Storage Temperature	-40°C to +60°C (-40°F to +140°F)			
Storage Humidity	≤95%			
Protection	IP67			

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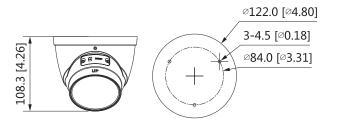
Structure	
Casing	Metal
Dimensions	108.3 mm × Φ122 mm (4.26" × Φ1.80")
Net Weight	0.69 kg (1.52 lb)
Gross Weight	0.88 kg (1.94 lb)



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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