

DH-IPC-HDW2431T-ZS-S2-BLK

4MP WDR IR Eyeball Network Camera



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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image defini on
- 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
- Rota on 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







Starlight





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.



Technical Specification							Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		1/3" 4Megapixel progressive CMOS					BLC	Yes
Effective Pixels		2688 (H) × 1520 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive						custom
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual
Min. Illumination		0.008 Lux@F1.5					Noise Reduction	3D DNR
IR Distance		40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		2					Smart IR	Yes
Pan/Tilt/Rotation Range		Pan 0°–360° Tilt: 0°–78°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
		Rotation: 0°–360°					Mirror	Yes
Lens Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		φ14					Network	
Focal Length		2.7 mm–13.5 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture		F1.5					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 ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;
Field of View		Pan: 104°–27° Tilt: 55°–15° Diagonal: 124°–31°						
Iris Type		Fixed aperture					Interoperability	Genetec
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)					User/Host	20
	Lens	Detect	Observe	Recognize	Identify		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
DORI Distance	W	64 m (209.97 ft) 220 m	25.6 m (83.99 ft) 88 m	12.8 m (41.99 ft)	6.4 m (21.00 ft)		Browser	IE Chrome
	T	(721.78 ft)	(288.71 ft)	(144.36 ft)	(72.18 ft)		Management Cathuran	Firefox Smart PSS; DSS; DMSS
Smart Event							Management Software	IOS; Android
General IVS Analytics		Tripwire; intrusion					Mobile Phone	iOs; Android
Video						Certification		
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Smart Codec		Yes						
			(1 fps-20 fps)	,			Douge	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		2560 × 1440 (1 fps-25/30 fps) Sub stream:					Power	43V DC/D F 1003 3 G
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Power Supply	12V DC/PoE (802.3af)
Stream Capability		2 streams					Power Consumption	< 6.4W
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)					Environment	
							Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH
							Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Bit Rate Control		CBR/VBR					Protection	IP67

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

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	DH-IPC-HDW2431TP-ZS-S2-BLK	4MP WDR IR Eyeball Network Camera,PAL				
Camera	DH-IPC-HDW2431TN-ZS-S2-BLK	4MP WDR IR Eyeball Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFB203W	Wall Mount				
	PFA106	Mount Adapter				
	PFB220C	Ceiling Mount				
Accessories (optional)	PFA152-E	Pole Mount				
(optional)	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

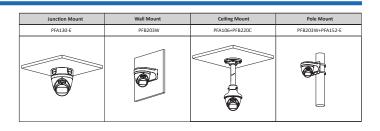
Optional:



PFA130-E-BLK Junction Box



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



Dimensions (mm[inch])

