

# DH-IPC-HDW2431EM-AS-S2

4MP WDR IR Eyeball Network Camera



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 and IK10 (Supported by some select models).

### **Functions**

### Smart ( H.265+ & 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.

## 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 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: 30 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, built-in Mic
- 12V DC/POE power support
- IP67 protection













### 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Image Sensor		1/3" 4Megapixel progressive CMOS				Bit Rate Control	× 240) CBR/VBR
Effective Pixels		2688 (H) × 1520 (V)					H.264: 32 Kbps-6144 Kbps
ROM		128 MB				Video Bit Rate	H.265: 12 Kbps-6144 Kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illumination		0.01 Lux @ F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR On/Off Control		Auto/Manual				Gain Control	Auto/Manual
IR LEDs Number		2 (IR LED)				Noise Reduction	3D NR
Pan/Tilt/Rotat	Pan/Tilt/Rotation Range		°–360° 78°			Motion Detection	OFF/ON (4 areas, rectangular)
, ,	ran/ Tiit/ NotatiOff Kafige		-360°			Region of Interest(RoI)	Yes (4 areas)
Lens						Smart IR	Yes
Lens Type		Fixed				Imaga Datation	0°/90°/180°/270° (Supports 90°/270° with 1080p
Mount Type		M12 2.8 mm				Image Rotation	resolution.)
Focal Length	Focal Length					Mirror	Yes
Max. Aperture	Max. Aperture					Privacy Masking	4 areas
		2.8 mm: Horizonal: 1	22 O°			Audio	
		Vertical: 55. Diagonal: 12	)°			Built-in MIC	Yes
Field of View	Field of View		4.0°			Audio Compression	G.711A; G.711Mu; G.726
			o°			Network	
Iris Type		Diagonal: 100.0°  Fixed aperture				Network	RJ-45 (10/100 Base-T)
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)				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
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	User/Host	20
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)	Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NAS
Smart event  General IVS Analytics		Intrusion; tripwire				Browser	IE Chrome
Video	ialytics	mausion, inpwire				Management Software	Firefox Smart PSS; DSS; DMSS
		HOCE, HOCA HOCAD AMPSO				Mobile Phone	IOS; Android
Video Compression Smart Codec		H.265; H.264; H.264B; MJPEG Smart H.265+/ Smart H.264+				Certification	ios, Altarola
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)				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
		704 × 480 (1 fps-30 fps)				Power	
Stream Capability		2 streams				Power Supply	12V DC/PoE (802.3af)

# Lite Series | DH-IPC-HDW2431EM-AS-S2

Power Consumption	< 6.6W			
Environment				
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%			
Storage Temperature	-40°C to +60°C (-40°F to +140°F)			
Protection	IP67			
Structure				
Casing	Metal			
Dimensions	93.6 mm × Φ106 mm (3.7" × Φ4.2")			
Net Weight	530 g (1.1 lb)			

800 g (1.7 lb)

Celling Mount	Wall Mount	Ceiling Mount	
Pole Mount(Vertical)			

Ø106.0 [Ø4.17]

Ø69.0 [Ø2.72] 4–Ø4.5 [Ø0.18]

Dimensions (mm[inch])

93.6 [3.69]

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC- HDW2431EM-AS-S2	4MP WDR IR Eyeball Network Camera, PAL				
	PFA130-E	Junction Box				
	PFB204W	Wall Mount				
	PFA152-E	Pole Mount				
	PFA106	Mount Adapter				
Accessories (optional)	PFB220C	Cell 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				

# Accessories

Gross Weight

# **Optional:**



PFA130-E Junction Box



PFA106 Mount Adapter



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



PFB204W Wall Mount



PFB220C Cell Mount



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

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