

# DH-IPC-HDW2431TM-AS-S2

4MP Lite IR Fixed-focal Eyeball Network Camera



- $\cdot$  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 supply
- IP67 protection



#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

#### **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

#### 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

#### **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 (Supported by some select models).

#### **Functions**

#### Smart H.265+ & Smart 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.

#### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.



# Lite Series | DH-IPC-HDW2431TM-AS-S2

## **Technical Specification**

	1/3" 4Megapixel progressive CMOS			
n	2688 (H) × 1520 (V)			
	128 MB			
	128 MB			
m	Progressive			
ter Speed	Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.01 Lux @ F1.6		
S/N Ratio		>56 dB		
Illumination Distance		30 m (98.43 ft)		
Illuminator On/Off Control		Auto/Manual		
Illuminator Number 2 (IR L				
on Range	Vertical: 0°-	78°		
	Fixed-focal			
	M12			
Focal Length		2.8 mm 3.6 mm		
	F1.6 F1.6			
	3.6 mm:			
	Fixed			
tance				
Lens	Detect	Observe	Recognize	Identify
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)
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)
t				
	m ter Speed on stance /Off Control on Range on Range tance Lens 2.8 mm 3.6 mm	n   2688 (H) × 13     128 MB   128 MB     128 MB   128 MB     m   128 MB     m   Progressive     ter Speed   Auto/Manual     on   0.01 Lux @ F     on   30 m (98.43)     /Off Control   Auto/Manual     on   2 (IR LED)     on   2 (IR LED)     on Range   Fixed-focal     M12   Stance     Imber   2.18 mm     on Range   Fixed-focal     M12   Stanmark     Imber   Stanmark     Imber	n     2688 (H) × 1520 (V)       I     2588 (H) × 1520 (V)       I     128 MB       I <th128 mb<="" th="">       I</th128>	n     2688 (H) × 1520 (V)       128 MB     128 MB       n     Progressive     Second Secon

IVS	Tripwire; intrusion
Video	
Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
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 NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest(RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 $\times$ 1520 resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711A; G.711Mu; G.726	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
User/Host	20	
User/Host Storage	20 FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	

# Lite Series | DH-IPC-HDW2431TM-AS-S2

Mobile PhoneIOS; AndroidIOS; AndroidCertificationCertificationsCE-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.60950-1-07PowerPower12V DC/PoE (802.3af)Power Consumption< 6.6WEnvironment-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)/less than ≤ 95%ProtectionP67StructureInterventionCasingMetal + PlasticDimensions101 mm × Φ110 mm (4.0" × Φ4.3")Net Weight0.65 kg (1.4 lb)		
CertificationsCE-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.60950-1-07PowerPowerPower Supply12V DC/PoE (802.3af)Power Consumption< 6.6WEnvironmentOperating 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)/less than ≤ 95%ProtectionIP67StructureCasingMetal + PlasticDimensions101 mm × Φ110 mm (4.0" × Φ4.3")Net Weight0.48 kg (11 lb)	Mobile Phone	IOS; Android
CertificationsCE-ENC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07PowerPowerPower Supply12V DC/PoE (802.3af)Power Consumption< 6.6WEnvironmentOperating Conditions-40°C to +60°C (-40°F to +140°F)/less than < 95%Storage TemperatureiPof7ProtectionIP67StructureCasingMetal + PlasticDimensions101 mm × Φ110 mm (4.0" × Φ4.3")Net Weight0.48 kg (1.1 lb)	Certification	
Power Supply12V DC/PoE (802.3af)Power Consumption< 6.6W	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Power Consumption< 6.6WEnvironmentOperating Conditions-40°C to +60°C (-40°F to +140°F)/less than < 95%	Power	
Environment -40°C to +60°C (-40°F to +140°F)/less than ≤ 95%   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 IP67   Casing Metal + Plastic   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Power Supply	12V DC/PoE (802.3af)
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   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Power Consumption	< 6.6W
Storage Temperature -40°C to +60°C (-40°F to +140°F)   Protection IP67   Structure Casing   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Environment	
Protection IP67   Structure Metal + Plastic   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than $\leq$ 95%
Structure   Casing Metal + Plastic   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Casing Metal + Plastic   Dimensions 101 mm × Φ110 mm (4.0" × Φ4.3")   Net Weight 0.48 kg (1.1 lb)	Protection	IP67
Dimensions     101 mm × Φ110 mm (4.0" × Φ4.3")       Net Weight     0.48 kg (1.1 lb)	Structure	
Net Weight 0.48 kg (1.1 lb)	Casing	Metal + Plastic
	Dimensions	101 mm × Φ110 mm (4.0" × Φ4.3")
Gross Weight 0.65 kg (1.4 lb)	Net Weight	0.48 kg (1.1 lb)
	Gross Weight	0.65 kg (1.4 lb)

## Accessories

#### **Optional:**



PFM321D

DC12V1A Power Adapter

256 <sup>TLC</sup>

PFM114 TLC SD Card



LR1002-1ET/1EC

Single-port Long Reach Ethernet over

Coax Extender

PFB203W Wall Mount



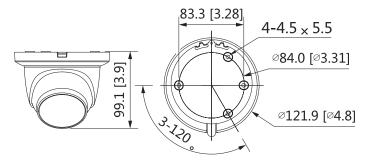
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester

Junction Mount	Wall Mount	Pole Mount	
PFA130-E	PFB203W	PFB152-E+PFA203W	
data-			

### Dimensions (mm[inch])



#### **Ordering Information**

Туре	Part Number	Description DH-IPC-HDW2431TM-AS-S2
4MP Camera	DH-IPC- HDW2431TMP-AS-S2	4MP Lite IR Fixed Fixed Exception AS 52_ Camera, PAL
	DH-IPC- HDW2431TMN-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC
	PFA130-E	Junction Box
Accessories (optional)	PFB203W	Wall 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