

DH-IPC-HDW2431TM-AS-S2

4MP Lite IR Fixed-focal 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: 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













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.

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.

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.





Tochnical	inocification						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×
Technical Specification Camera						Resolution	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
Image Sensor		1/3" 4Megapixel progressive CMOS					× 240)
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-6144 kbps 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		0.008 Lux @ F1.6				WDR	120 dB
		>56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
	S/N Ratio Illumination Distance		ft)			Gain Control	Auto/Manual
Illuminator Or		30 m (98.43 ft) Auto/Manual				Noise Reduction	3D NR
Illuminator Nu		2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
aaco. 110		Horizonal: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotat	ion Range	Vertical: 0°–78° Rotation: 0°–360°				Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length	Focal Length					Audio	
Max. Aperture		F1.6 F1.6				Built-in MIC	Yes
		2.8 mm:				Audio Compression	G.711A; G.711Mu; G.726
Field of View	Field of View			l 55.0° × Diago 45.0° × Diagon		Alarm	No SD card; SD card full; SD card error; network
Iris Type	Iris Type					Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft)					detection; audio detection; safety exception
	Lens	3.6 mm: 1.6 m (3.61 ft) Detect Observe Recognize Identify			Identify	Network	
DORI	2.8 mm	56 m	22.4 m	11.2 m	5.6 m	Network	RJ-45 (10/100 Base-T)
Distance		(183.73 ft) 80 m	(73.49 ft) 32.0 m	(36.75 ft) 16.0 m	(18.37 ft) 8.0 m	SDK and API	Yes
	3.6 mm	(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security
Smart event						Cyber Security	logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot;
IVS Tripwire; intrusion			rusion				trusted execution; trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		sub stream) Smart H.265+/ Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
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)				User/Host	20
						Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
						Browser	IE Chrome Firefox
Stream Capab	Stream Capability					Management Software	Smart PSS; DSS; DMSS



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

are series Biri	101101121311111713 32
Mobile Phone	IOS; Android
Certification	
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
Power	
Power Supply	12V DC/PoE (802.3af)
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

0.48 kg (1.1 lb)

0.65 kg (1.4 lb)

99.1 mm \times Φ 121.9 mm (3.9" \times Φ 4.8")

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC- HDW2431TMP-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, PAL				
iivii cainera	DH-IPC- HDW2431TMN-AS-S2	4MP Lite IR Fixed-focal Eyeball Network Camera, NTSC				
	PFA130-E	Junction Box				
	PFB203W	Wall Mount				
	PFA152-E	Pole Mount				
Accessories (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 Junction Box



PFB203W Wall Mount



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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



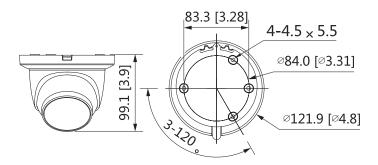
PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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

Dimensions (mm[inch])



Rev 001.001

Dimensions

Net Weight
Gross Weight