

DH-IPC-HFW2431T-AS-S2

4MP Lite IR Fixed-focal Bullet 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 to the standards of IP67 and IK10 (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.

- · 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 4MP (2688 × 1520) @20 fps, and supports 2560×1440 (2560 × 1440) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED. max IR distance: 80 m
- \cdot 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 tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, local alarm, voltage detection, audio detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/POE power support supply
- · IP67 protection, IK10 protection (optional)













Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

IVS

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

Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);
Camera						Resolution	3M (2048 × 1536); 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)
Image Sensor		1/3" 4Megapixel progressive CMOS					
Max. Resolution		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Dit Data	H.264: 32 kbps-6144 kbps
RAM		128 MB				Video Bit Rate	H.265: 12 kbps-6144 kbps
Scanning System		Progressive				Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				BLC	Yes
S/N Ratio		> 56 dB				HLC	Yes
Min. Illumination	n	0.008 Lux@F1.6				WDR	120 dB
Illumination Dist	ance	80 m (262.5 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/C	Off Control	Auto/Manual				Gain Control	Auto/Manual
Illuminator Num	ber	4 (IR LED)				Noise Reduction	3D DNR
Pan/Tilt/Rotatio	n Range	Pan: 0°-360° Tilt: 0°-90°				Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens Lens Type		Fixed-focal				Smart Illumination	Yes
Mount Type		M12				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower)
Focal Length		3.6 mm; 6 mm; 8 mm				Mirror	Yes
Max. Aperture		3.6 mm: F1.6 6 mm: F1.6				Privacy Masking	4 areas
		8 mm: F1.6 3.6 mm: Horizontal 84° × Vertical 45° × Diagonal 100°				Audio	
Field of View		6 mm: Horizontal 52° × Vertical 28° × Diagonal 61° 8 mm: Horizontal 40° × Vertical 23° × Diagonal 45°				Audio Compression	G.711a; G.711Mu; G.726; AAC
Iris Type		Fixed				Alarm	
Close Focus Distance		3.6 mm: 1.4 m (4.6 ft) 6 mm: 3.1 m (10.2 ft) 8 mm:4.9 m(16.1 ft)				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local
	Lens	Detect	Observe	Recognize	Identify		alarm
	3.6 mm	80 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)	Network	
DORI Distance	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)	Network	RJ-45 (10/100 Base-T)
	8 mm	160.0 m	64.0 m	32.0 m	16.0m	SDK and API	Yes
Cmart Frant		(524.9 ft)	(210.0 ft)	(105.0 ft)	(52.5 ft)		IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;
Smart Event		Tripwire, intr	usion			Protocol	UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Video		Tripwire; intrusion				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Video Compression		H.265; H.264; H.264B; MJPEG(only supported				User/Host	20
Smart Codec		by sub stream) Smart H.265+/ Smart H.264+				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max.
		Main stream:				Edge Storage	256 GB); NAS
Video Frame Rate		2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub stream:				Browser	Chrome Firefox
		704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				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/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.7W

Environment

Operating Conditions	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10(optional)

Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.91 kg (2.0 lb)
Gross Weight	1.16 kg (2.6 lb)

Ordering Information Part Number Description Type 4MP Lite IR Fixed-focal Bullet DH-IPC-HFW2431TP-AS-S2 Nework Camera, PAL 4MP Camera 4MP Lite IR Fixed-focal Bullet DH-IPC-HFW2431TN-AS-S2 Nework Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D 12V DC 1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD card

Accessories

Optional:



PFA130-E Junction Box



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D 12V DC 1A Power Adapter



PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

Dimensions (mm[inch])





