

DH-IPC-HFW2231T-AS-S2

2MP Lite IR Fixed-focal Bullet Network Camera



- · 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1980 × 1080) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 80 m
- · Rol, 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 supply
- · IP67 protection, IK10 protection (optional)













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.

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.





Camera Image Sensor 1/2.8" 2Megapixel progressive CMOS Bit Reference of the progressive CMOS Max. Resolution 1920 (H) × 1080 (V) Video ROM 128 MB Day/II RAM 128 MB Day/II Scanning System Progressive BLC Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s HLC S/N Ratio > 56 dB Wbr Min. Illumination 0.002 Lux@F1.6 White Illumination Distance 80 m (262.5 ft) Gain Illuminator On/Off Control Auto/Manual Noise Illuminator Number 4 (IR LED) Mottie Pan/Tilt/Rotation Range Pan: 0"-360" Regic Lens Lens Smar Lens Lens Image Mount Type M12 Mirro Max. Aperture 3.6 mm; £1.6 Audic 6 mm; £1.6 Audic Audic 6 mm; £1.6 Audic Audic Field of View 3.6 mm; Horizontal 37" × Vertical 22" × Diagonal 104" Audic	e Balance Control e Reduction on Detection on of Interest
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8 mm 110.3m 44.1 m 22.1 m 11.0 m (361.9 ft) (144.7 ft) (72.5 ft) (36.1 ft)	
Smart Event	ocol
IVS Tripwire; intrusion	
Video	operability
Video Compression H.265; H.264; H.264B; MJPEG (only supported by sub stream)	/Host
Smart Codec Smart H.265+/ Smart H.264+ Stora	ige
Main stream: 1920 × 1080 (1 fps–25/30 fps) Brow Video Frame Rate Sub stream: 704 × 575 (1 fps, 25 fps)	<i>r</i> ser
704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps) Mana	agement Soft
Stream Capability 2 streams Mobi	ile Phone

Resolution	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 DNR	
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 1920 × 1080 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; AAC	
Alarm		
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 alarm	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
User/Host	20	
Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	



Certification

	CE-LVD: EN60950-1
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

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	< 7.8W

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 Type Part Number Description 2MP Lite IR Fixed-focal Bullet DH-IPC-HFW2231TP-AS-S2 Nework Camera,PAL 2MP Camera 2MP Lite IR Fixed-focal Bullet DH-IPC-HFW2231TN-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])





