

DH-IPC-HFW2231T-AS-S2

2MP 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.

- \cdot 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1980 × 1080) @25/30 fps
- \cdot H.265 codec, high compression rate, ultra-low bit rate
- \cdot 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)



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.



Lite Series | DH-IPC-HFW2231T-AS-S2

Technical Specification

Camera						
Image Sensor		1/2.8" 2Megapixel progressive CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
S/N Ratio		> 56 dB				
Min. Illumination		0.002 Lux@F1.6				
Illumination Distance		80 m (262.5 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		3.6 mm; 6 mm; 8 mm				
Max. Aperture		3.6 mm: F1.6 6 mm: F1.6 8 mm: F1.6				
Field of View		3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63° 8 mm: Horizontal 41° × Vertical 22° × Diagonal 47°				
Iris Type		Fixed				
Close Focus Distance		3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft) 8 mm: 4 m (13.1 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	
	6 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.4 ft)	8.3 m (27.2 ft)	
	8 mm	110.3m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	
Smart Event						
IVS		Tripwire; intrusion				
Video						

H.265; H.264; H.264B; MJPEG (only supported

by sub stream)

Main stream:

Sub stream:

2 streams

Smart H.265+/ Smart H.264+

1920 × 1080 (1 fps-25/30 fps)

704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)

Video Compression

Video Frame Rate

Stream Capability

Smart Codec

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 \times 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; HTTP5; 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

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF

(352 × 288/352 × 240)

CBR/VBR

Resolution

Bit Rate Control

Lite Series | DH-IPC-HFW2231T-AS-S2

Certification

Ordering Information

Туре

2MP Camera

Accessories (optional) Part Number

PFA130-E

PFA152-E

PFM321D

PFM900-E

PFM114

LR1002-1ET/1EC

DH-IPC-HFW2231TP-AS-S2

DH-IPC-HFW2231TN-AS-S2

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			
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 \leq 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)			

Description

Junction Box

Pole Mount

TLC SD card

2MP Lite IR Fixed-focal Bullet

2MP Lite IR Fixed-focal Bullet

Nework Camera, PAL

Nework Camera, NTSC

12V DC 1A Power Adapter

over Coax Extender

Integrated Mount Tester

Single-port Long Reach Ethernet

Accessories

Optional:



Junction Box

Reach Ethernet over

Coax Extender



PFA152-E

Pole Mount



PFM321D 12V DC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Int

PFM900-E Integrated Mount Tester



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

Dimensions (mm[inch])





