

DH-IPC-HFW2231T-ZAS-S2

2MP Lite IR Vari-focal Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max IR distance: 60 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, local alarm, voltage detection, audio abnormal
- 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)



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.

Οηνιέ

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 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

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-HFW2231T-ZAS-S2

Technical Specification

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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–1/100000 s				
Min. Illumination		Color : 0.002 Lux @ F1.5 Black&White : 0.001Lux@F1.5 , 0Lux@F1.5 (IR on)				
S/N Ratio		>56 dB				
Illumination Distance		60 m (196.85 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		Motorized vari-focal				
Mount Type		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 109°–28° Vertical: 57°–16° Diagonal: 131°–33°				
Iris Type		Fixed				
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	
	т	151.7 m (497.70 ft)	60.6 m (198.82 ft)	30.3 m (99.41 ft)	15.1 m (49.65 ft)	
Smart Event						
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: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				
Stream Capability		2 streams				
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 NR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest(RoI)	Yes (4 areas)				
Smart Illumination	Yes				
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 1080p resolution and lower.)				
Mirror	Yes				
Privacy Masking	4 areas				
Audio					
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; local alarm				
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; IEEE802.1x; trusted boot; trusted execution; trusted upgrade				
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; IEEE802.1x; SNMP; Bonjour				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec				
User/Host	20				
Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP				
Browser	IE Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CRF FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07				

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

1 channel (RCA port)				
1 channel (RCA port)				
1 channel In: 5mA 5VDC				
1 channel Out: 300mA 12VDC				
12V DC/PoE (IEEE802.3af)				
< 9.6W				
Environment				
-30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH				
-40°C to +60°C (-40°F to +140°F)				
IP67;IK10(optional)				
Structure				
Metal				
244.1 mm × Φ90.4 mm (9.61" × Φ3.26")				
0.9 kg (1.98 lb)				
1.15 kg (2.54 lb)				

Accessories

Optional:



Junction Box

LR1002-1ET/1EC

Single-port Long

Reach Ethernet over

Coax Extender

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PFA152-E

Pole Mount

PFM900-E

Integrated Mount

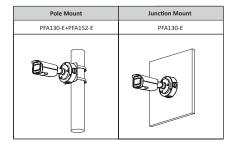
Tester



DC12V1A Power Adapter



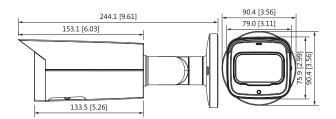
PFM114 TLC SD Card

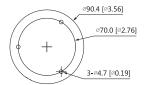


Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-IPC-HFW2231TP-ZAS-S2	2MP Lite IR Vari-focal Bullet Network Camera,PAL	
	DH-IPC-HFW2231TN-ZAS-S2	2MP Lite IR Vari-focal Bullet Network Camera,NTSC	
Accessories (optional)	PFA130-E	Junction Box	
	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	

Dimensions (mm[inch])





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