

DH-IPC-HFW2231T-ZS-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, voltage detection
- · 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 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.

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.



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps
Image Sensor		1/2.8" 2Megapixel progressive CMOS						H.265: 12 kbps-6144 kbps
Max. Resolution		1920 (H) × 1080 (V)					Day/Night	Auto(ICR)/Color/B/W
ROM		128 MB					BLC	Yes
RAM		128 MB					HLC	Yes
Scanning System		Progressive					WDR	120 dB Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					White Balance	custom
Min. Illumination		0.002 Lux@F1.5					Gain Control	Auto/Manual
S/N Ratio		>56 dB					Noise Reduction	3D NR
Illumination Distance		60 m (196.85 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Num							Smart Illumination	Yes
Pan/Tilt/Rotation Range		4 (IR LED) Pan: 0°–360° Tilt: 0°–90°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)
rany mey notatio	mange	Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Alarm	
Mount Type		ф14						No SD card; SD card full; SD card error; network
Focal Length Max. Aperture		2.7 mm-13.5 mm F1.5					Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
		Horizontal: 109°–28°					Network	
Field of View		Vertical: 57°–16° Diagonal: 131°–33°					Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed						Yes
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)					SDK and API	Video encryption; firmware encryption; configuration
	Lens	Detect 44.1 m	Observe 17.6 m	Recognize 8.8 m	Identify 4.4 m		Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
DORI Distance	W	(144.69 ft)	(57.74 ft)	(28.87 ft)	(14.44 ft)			execution; trusted upgrade
	T	151.7 m (497.70 ft)	60.6 m (198.82 ft)	30.3 m (99.41 ft)	15.1 m (49.65 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Event		Tripwire; intrusion					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video							User/Host	20
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE Chrome Firefox
		Main stream: 1920 × 1080 (1 fps-25/30 fps)					Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		Sub stream: 704 × 576 (1 fps-25 fps)					Mobile Phone	IOS; Android
		704 × 480 (1 fps-30 fps)					Certification	
Stream Capability		2 streams						CE-LVD: EN62368-1
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Certifications	CE-END: END2368-1 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

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

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 9.6W

Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67;IK10(optional)		

Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HFW2231TP-ZS-S2	2MP Lite IR Vari-focal Bullet Network Camera,PAL			
	DH-IPC-HFW2231TN-ZS-S2	2MP Lite IR Vari-focal Bullet Network Camera,NTSC			
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount			
Accessories	PFM321D	DC12V1A Power Adapter			
(optional)	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



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



PFA152-E Pole Mount



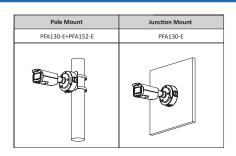
PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card



Dimensions (mm[inch])

