

DH-IPC-HFW2231T-ZAS-S2

2MP WDR IR Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs 2MP (1920 × 1080)@25/30 fps
- · H.265 coding, high compression ration, low bit rate
- Built-in IR LED, max IR distance: 50 m
- 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 tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, local alarm, voltage detection, audio abnormal
- · Alarm: In, out; audio: In, out; max. 256 GB SD card
- 12V DC/POE power support
- IP67 protection













System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

Functions

Smart(H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

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

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
Camera							Day/Night	ICR switch
Image Sensor		1/2.8" CMOS					BLC	Yes
Effective Pixels	Effective Pixels		1920 (H) × 1080 (V)				WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
RAM		128 MB						custom
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Noise Reduction	3D DNR
Min. Illumination		0.002 Lux@F1.6					Motion Detection	Disable/Enable (4 areas, rectangle)
IR Distance		50 m (164.04 ft) (IR)					Region of Interest(RoI)	Yes (4 areas)
IR On/Off Control		Auto/Manual					Smart IR	Yes
IR LEDs Number		4 (IR LED)					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
		Horizonal: 0°–360°					Mirror	Yes
Pan/Tilt/Rotation Range		Vertical: 0°–90° Rotation: 0°–360°					Privacy Masking	4 areas
Lens							Audio	
Lens Type		Motorized vari-focal					Audio Compression	G.711a; G.711Mu; G.726; AAC
Mount Type		ф14					Network	
Focal Length		2.7 mm-13.5 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture		F1.6						HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;
Field of View		Horizonal: 109°–28° Vertical: 57°–16° Diagonal: 131°–33°					Protocol	
Optical Zoom		5 times					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Iris Type		Fixed					User/Host	20
Close Focus Dist	ance	0.8m-0.8m (2.62 ft-2.62 ft)			Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS		
DORI Distance	Lens	Detect 44.1 m	Observe 17.6 m	Recognize 8.8 m	Identify 4.4 m		Browser	IE Google
	W	(144.69 ft)	(57.74 ft)	(28.87 ft)	(14.44 ft)			Firefox
	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)		Management Software	Smart PSS; DSS; DMSS
Smart Event							Mobile Phone	IOS; Android
General IVS Ana	lytics	Intrusion; tripwire					Certification	
Video						CE-LVD: EN60950-1		
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Smart Codec		H.264: Yes H.265: Yes						UL: UL60950-1 CAN
		50Hz Main stream (1920 × 1080@25 fps); sub stream (704 ×					Port	
Video Frame Rate		576@25 fps) 60Hz					Audio Input	1 (RCA port)
		Main stream (1920 \times 1080@30 fps); sub stream (704 \times 480@30 fps)					Audio Output	1 (RCA port)
Stream Capability		Main stream; sub stream					Alarm Input	1 channel In: 5mA 5VDC
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Alarm Output Power	1 channel Out: 300mA 12VDC
Dit Data Continu		(352 × 288/352 × 240)					Power Supply	12V DC/POE
Bit Rate Control		CBR/VBR					Tower Suppry	124 00/101

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

(POE)	Basic power consumption: 2W (12V DC), 2.7W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8.2W (12V DC), 9.6W
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Environment

Operating Temperature	-30°C to +60°C (-22°F to +140°F)		
Operating Humidity	≤95%		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Storage Humidity	≤95%		
Protection	IP67		

Structure

Casing	Metal
Dimensions	Φ244.1 mm × 90.4 mm (Φ9.61" × 3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HFW2231TP-ZAS-S2	2MP WDR IR Bullet Network Camera,PAL			
	DH-IPC-HFW2231TN-ZAS-S2	2MP WDR IR 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 extender



PFA152-E Pole Mount



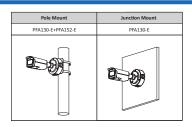
PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



Dimensions (mm[inch])

