

DH-IPC-HFW2231T-ZS-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 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 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/POE power support
- IP67 protection ,IK10 protection (optional)













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.



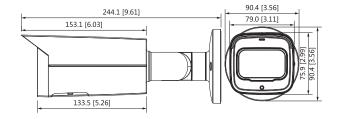
Technical Specification							Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps
Camera							Day/Night	ICR switch
Image Sensor		1/2.8"2Megapixel progressive CMOS					BLC	Yes
Effective Pixels		1920 (H) × 1080 (V)					WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
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@F1.5					Motion Detection	OFF/ON (4 areas, rectangular)
IR Distance			60 m (196.85 ft)				Region of Interest(RoI)	Yes (4 areas)
IR On/Off Contro			Auto/Manual				Smart IR	Yes
IR LEDs Number		4					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
			-360°				Mirror	Yes
Pan/Tilt/Rotation	n Range	Vertical: 0°–90° Rotation: 0°–360°					Privacy Masking	4 areas
Lens							Network	
Lens Type		Motorized vari-focal					Network	RJ-45 (10/100 Base-T)
Mount Type Focal Length		ф14 2.7 mm–13.5 mm					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Max. Aperture		F1.5					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
		Horizonal: 109°–28°					User/Host	20
Field of View		Vertical: 57°–16° Diagonal: 131°–33°					Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS
Optical Zoom Iris Type		5 times Fixed					Browser	IE Chrome Firefox
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)					Management Software	Smart PSS; DSS; DMSS
	Lens	Detect	Observe	Recognize	Identify		Mobile Phone	IOS; Android
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)		Certification	
	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)		CE-LVD: EN60950-1	
Smart Event							Certifications	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
General IVS Analytics		Intrusion; tripwire						
Video							Power	
Video Compression		H.265; H.264; H.264B; MJPEG					Power Supply	12V DC/POE
Smart Codec		H.264: Yes					Power Consumption	< 9.6W
		H.265: Yes					Environment	
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps)					Operating Conditions	-30°C to +60°C (-22°F to +140°F)/ less than ≤ 95%
video i fallie Nate		Sub stream: 704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)					Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Stream Capability		2 streams					Protection	IP67;IK10(optional)
		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280					Structure	
Resolution		× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Casing	Metal
Bit Rate Control		CBR/VBR					Dimensions	Φ244.1 mm × 90.4 mm (Φ9.61" × 3.26")

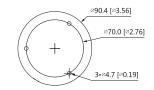
Lite Series | DH-IPC-HFW2231T-ZS-S2

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 WDR IR Bullet Network Camera,PAL				
	DH-IPC-HFW2231TN-ZS-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				

Dimensions (mm[inch])





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

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

