

DH-IPC-HFW2431T-ZS-S2

4MP WDR IR Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520)@20 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, voltage detection
- · 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.



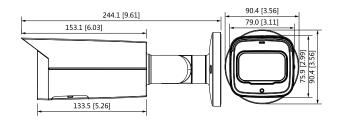
Technical Specification							Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Image Sensor		1/3" CMOS					Day/Night	ICR switch
Effective Pixels		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive						custom
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	Auto/Manual
Min. Illumination		0.01 Lux@F1.6					Noise Reduction	3D DNR
IR Distance		50 m (164.04 ft) (IR)					Motion Detection	Disable/Enable (4 areas, rectangle)
IR On/Off Contro	IR On/Off Control		Auto/Manual				Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		4 (IR LED)					Smart IR	Yes
Pan/Tilt/Rotation Range		Horizonal: 0°–360° Vertical: 0°–90°					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution.)
Lens		Rotation: 0°–360°					Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		ф14					Network	
Focal Length		2.7 mm-13.5 mm					Network	RJ-45 (10/100 Base-T) HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;
Max. Aperture		F1.6					Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Field of View		Horizonal: 104°–27° Vertical: 55°–15°					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Optical Zoom		Diagonal: 124	Diagonal: 124°–31°				User/Host	20
Iris Type		Fixed					Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS
	Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)				Browser	IE Google Firefox
	Lens	Detect	Observe	Recognize	Identify		Management Software	Smart PSS; DSS; DMSS
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		Mobile Phone	IOS; Android
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Certification	
Smart Event		, , , , , , , , , , , , , , , , , , , ,					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
General IVS Anal	lytics	Intrusion; tripwire						2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UI: UL60950-1 CAN
Video							Power	
Video Compress	Video Compression		; H.264B; MJPE	EG .			Power Supply	12V DC/POE
Smart Codec		H.264: Yes H.265: Yes					. этс. эдруу	Basic power consumption: 1.9W (12V DC), 2.8W (POE)
		50Hz Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps)					Power Consumption	Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)
Video Frame Rat	te	Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps) 60Hz					Environment	
		Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)					Operating Temperature	-30°C to +60°C (-22°F to +140°F)
							Operating Humidity	≤95%
Stream Capability		Main stream; sub stream					Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×480); CIF (352 × 288/352 × 240)					Storage Humidity	≤95%
							Protection	IP67

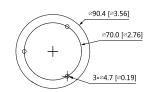
Structure

Casing	Metal
Dimensions	Ф244.1 mm × 90.4 mm (Ф9.61" × 3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HFW2431TP-ZS-S2	4MP WDR IR Bullet Network Camera,PAL				
	DH-IPC-HFW2431TN-ZS-S2	4MP 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		

