

# DH-IPC-HFW2431T-ZAS-S2

4MP WDR IR Bullet Network Camera



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.

- $\cdot$  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, local alarm, voltage detection, audio abnormal
- Alarm: In, out; audio: In, out; max. 256 GB SD card
- 12V DC/POE power support
- IP67 protection



#### 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.



### Lite Series | DH-IPC-HFW2431T-ZAS-S2

Technical Sp	ecificati	on			
Camera					
Image Sensor		1/3" CMOS			
Effective Pixels		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.01 Lux@F1.6			
IR Distance		50 m (164.04 ft) (IR)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Horizonal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.6			
Field of View		Horizonal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°			
Optical Zoom		5 times			
Iris Type		Fixed			
Close Focus Distance		0.8m–0.8m (2.62 ft–2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
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)
	т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)

Smart Event

General IVS Analytics	Intrusion; tripwire			
Video				
Video Compression	H.265; H.264; H.264B; MJPEG			
Smart Codec	H.264: Yes H.265: Yes			
Video Frame Rate	50Hz Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps) 60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)			
Stream Capability	Main stream; sub stream			
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)			

Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps		
Day/Night	ICR switch		
BLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	Disable/Enable (4 areas, rectangle)		
Region of Interest(RoI)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	G.711a; G.711Mu; G.726; AAC		
Network			
Network	RJ-45 (10/100 Base-T)		
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		
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		
User/Host	20		
Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS		
Browser	IE Google Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	IOS; Android		
Certification			
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN		
Port			
Audio Input	1 (RCA port)		
Audio Output	1 (RCA port)		
Alarm Input	1 channel In: 5mA 5VDC		
Alarm Output	1 channel Out: 300mA 12VDC		
Power			
Power Supply	12V DC/POE		

## Lite Series | DH-IPC-HFW2431T-ZAS-S2

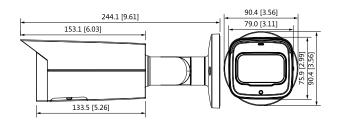
Power Consumption	Basic power consumption: 1.9W (12V DC), 2.8W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)				
Environment					
Operating Temperature	-30°C to +60°C (-22°F to +140°F)				
Operating Humidity	≤95%				
Storage Temperature	-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)				

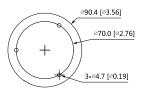
#### **Ordering Information**

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

# Pole Mount Junction Mount PFA130-E+PFA152-E PFA130-E Image: Comparison of the system of the syste

#### 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



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