

# 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 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.



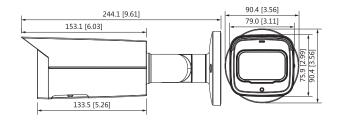
Technical Specification							Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Camera							Day/Night	ICR switch
Image Sensor		1/3" 4Megapixel progressive CMOS					BLC	Yes
Effective Pixels		2688 (H) × 1520 (V)					WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
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		0.01 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 Control		Auto/Manual					Smart IR	Yes
IR LEDs Number		4					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688 \times 1520$ resolution.)
		Horizonal: 0°–360° Vertical: 0°–90°					Mirror	Yes
Pany mily Rolatio	Pan/Tilt/Rotation Range		360°				Privacy Masking	4 areas
Lens							Network	
Lens Type		Motorized vari-focal					Network	RJ-45 (10/100 Base-T)
Mount Type		ф14					Ductocal	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;
Focal Length		2.7 mm-13.5 mm					Protocol	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
Field of View		Horizonal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°					User/Host	20
Optical Zoom		5 times					Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS
Iris Type		Fixed					Browser	IE Chrome Firefox
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)						
	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	88 m	44 m	22 m		Certification	
Т		(721.78 ft) (288.71 ft) (144.36 ft) (72.18 ft)						CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Smart Event							Certifications	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.264; H.264B; MJPEG					Power Supply	12V DC/POE
Smart Codec		H.264: Yes H.265: Yes					Power Consumption	< 9.6W
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Environment	
							Operating Conditions	-30°C to +60°C (-22°F to +140°F)/ less than ≤ 95%
							Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Stream Capability		2 streams					Protection	IP67;IK10(optional)
эпеані саравінту		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);					Structure	
Resolution		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)					Casing	Metal
Bit Rate Control		CBR/VBR					Dimensions	Φ244.1 mm × 90.4 mm (Φ9.61" × 3.26")

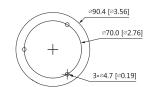
# Lite Series | DH-IPC-HFW2431T-ZS-S2

Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

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



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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

