

# DH-IPC-HFW5231E-Z

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, local alarm, voltage detection, audio abnormal
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB MicroSD 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.



Camera	Technical Specification							Video Bit Rate	H.264: 32 Kbps-6144 Kbps
Belge   Per   P	Camera							Day/Night	H.265: 12 Kbps-6144 Kbps
### Bit	Image Sensor		1/2.8" 2Megapixel progressive CMOS						
Mode	Effective Pixels		1920 (H) × 1080 (V)						
Manual	ROM	ROM		128 MB					
Progressive	RAM		128 MB					WDR	
Min.	Scanning System	n	Progressive					White Balance	
Min illimination  18 Distance 18 Distance 18 R Distance 18 R Ox/Off Control  18 R ICD Number  19 Pan/Til/Robation Rumpe  19 Pan/Til/Robation Ru			Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual
R Cn/Off Control								Noise Reduction	3D DNR
R Corp   Pan   P	IR Distance							Motion Detection	OFF/ON (4 areas, rectangular)
Smart R	IR On/Off Contro	ol						Region of Interest(RoI)	Yes (4 areas)
Pan/Tit/Rotation   Range   Pan. 10"-360"   Title 0"-90"   Rotation: 0"-360"   Will of 90"   Rotation: 0"-360"   Ro	·	·						Smart IR	Yes
Minror   Yes   Motorized vari-focal   Mount Type   F1.5   Motorized vari-focal   Motori			Pan: 0°-360°					Image Rotation	
Mount Type	, ,	. 0-						Mirror	Yes
Mount Type								Privacy Masking	4 areas
Audio Compression   G.711a; G.711Mu; G.726; AAC								Audio	
Network   Pan: 109"-28"   Titl: 57"-16"   Diagonal: 131"-33"   Protocol								Audio Compression	G.711a; G.711Mu; G.726; AAC
Field of View								Network	
Field of View   Till: 57"-16"   Diagonal: 131"-33"   Protocol	Max. Aperture							Network	RJ-45 (10/100 Base-T)
Close Focus Distance   Down   Close	Field of View		Tilt: 57°-16°					Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;
Lens	Iris Type		Fixed aperture						
DORI Distance	Close Focus Dist	ance	0.8 m-0.8 m	(2.62 ft-2.62 f	t)			Interoperability	
DORI Distance   W		Lens						User/Host	
T	DORI Distance	W						USEI/11UST	
Browser   Chrome   Firefox		Т						Edge Storage	256 GB); NAS
Management Software   Smart PSS; DSS; DMSS	Smart Event							Browser	Chrome
Video         Mobile Phone         IOS; Android           Video Compression         H.265; H.264; H.264B; MJPEG         Certification           Smart Codec         Yes         CE-LVD: EN60950-1 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           Stream Capability         2 streams         Port           Resolution         1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)         Audio Output         1 channel (RCA port)           Alarm Input         1 channel In: 5mA 5VDC	General IVS Ana	lytics	Tripwire; intrusion					Managament Software	
Video Compression         H.265; H.264; H.264B; MJPEG           Smart Codec         Yes           Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)         Certifications         CE-LVD: EN60950-1 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           Stream Capability         2 streams         Port           Resolution         1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)         Audio Output         1 channel (RCA port)           Alarm Input         1 channel In: 5mA 5VDC	Video							· ·	
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Video Frame Rate         Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)         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           Stream Capability         2 streams         Port           Resolution         1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)         Audio Output         1 channel (RCA port)           Alarm Input         1 channel In: 5mA 5VDC	Smart Codec		Yes						
Audio Input   1 channel (RCA port)	Video Frame Rate		1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Audio Input 1 channel (RCA port)  1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)  Audio Output 1 channel (RCA port)  Alarm Input 1 channel In: 5mA 5VDC	Stream Capability							Port	
Resolution × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)  Alarm Input 1 channel (RCA port)  1 channel In: 5mA 5VDC	2. Cam Supusincy							Audio Input	1 channel (RCA port)
Alarm Input 1 channel In: 5mA 5VDC	Resolution		× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Audio Output	1 channel (RCA port)
Bit Rate Control CBR/VBR Alarm Output 1 channel Out: 300mA 12VDC								Alarm Input	1 channel In: 5mA 5VDC
	Bit Rate Control		CBR/VBR					Alarm Output	1 channel Out: 300mA 12VDC

# Lite Series | DH-IPC-HFW5231E-Z

# Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 9.6W

# Environment

Operating Conditions  $-30^{\circ}\text{C to } +60^{\circ}\text{C } (-22^{\circ}\text{F to } +140^{\circ}\text{F})/\text{less than} \le 95\% \text{ RH}$ 

Storage Temperature -40°C to +60°C (-40°F to +140°F)

Protection IP67;IK10(optional)

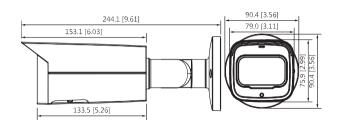
# Structure

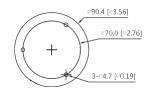
Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.9 kg (1.98 lb)
Gross Weight	1.15 kg (2.54 lb)

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-IPC-HFW5231EP-Z	2MP WDR IR Bullet Network Camera,PAL				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
	PFM321D	DC12V1A Power Adapter				
Accessories (optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

# Pole Mount PFA130-E+PFA152-E PFA130-E

# 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

