

# DH-IPC-HFW3241E-AS

2MP Lite AI IR Fixed focal Bullet Network Camera



#### **System Overview**

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

#### **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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- H.265 codec, high compression rate, 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 tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power support
- IP67 protection
- · SMD













#### **Intelligent Video Analysis (IVS)**

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

#### **Smart Motion Detection (SMD)**

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

#### 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: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Camera						Day/Night	ICR auto switch	
Image Sensor		1/2.8"2Megapixel progressive CMOS					BLC	Yes
Effective Pixels		1920 (H) ×1080 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		256 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		0.002 Lux@F1.6					Noise Reduction	3D DNR
IR Distance		50 m (164.0 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number	IR LEDs Number		1 (IR LED)				Smart IR	Yes
Pan/Tilt/Rotatio	n Range	Horizontal: 0°	'–360°; vertica	l: 0°–90°; rotat	ion: 0°–360°		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1920 \times 1080$ resolution.)
Lens							Mirror	Yes
Lens Type		Fixed focal					Privacy Masking	4 areas
Mount Type		M12					Audio	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Built-in MIC	Yes
Max. Aperture		F1.6					Audio Compression	G.711a; G.711Mu; G726; AAC
Field of View		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°					Network	
Iris Type	Iris Type		Fixed aperture				Network	RJ-45 (10/100 Base-T)
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)					Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
			6 mm: 2.5 m (8.2 ft)				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
	Lens	Detect	Observe	Recognize	Identify		Scene Self-adaptation	Yes
DODI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		User/Host	20 (Total bandwidth: 64 M)
DORI Distance	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)		Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Professional	6mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)		Browser	IE: IE8, IE9, IE11 Chrome Firefox
Perimeter Prote							Management Software	Smart PSS, DSS, DMSS
Perimeter Prote	Ction	Tripwire; intrusion (Recognition of human and vehicle)  Work together with Smart NVR to perform refine					Mobile Phone	IOS; Android
Intelligent Search		intelligent search, event extraction and merging to event videos					Certification	
Video						Certifications	CE-LVD: EN60950-1	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG						CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Smart Codec		Yes						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Port	
Stream Capability		3 streams					Audio Input	1-channel (RCA port)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Audio Output	1-channel (RCA port)
Nesolution		× 720); D1 (704 × 576) 704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Input	1 channel in: 5mA 3V–5V DC
Bit Rate Control		CBR/VBR					Alarm Output	1 channel out: 300mA 12V DC

# Lite Al Series | DH-IPC-HFW3241E-AS

#### Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 5.2W

#### Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than≤95%		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	IP67		

#### Structure

Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)
Net Weight	590 g (1.3lb)
Gross Weight	780 g (1.7lb)

Ordering Information					
Туре	Part Number	Description			
2MP	DH-IPC-HFW3241EP-AS	2MP Lite AI IR Fixed focal Bullet Network Camera,PAL			
Camera	DH-IPC-HFW3241EN-AS	2MP Lite AI IR Fixed focal 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			

# Accessories

### **Optional:**







LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



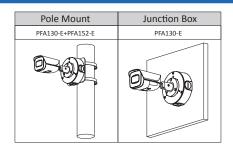
PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



## Dimensions (mm[inch])

