

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.



Bit Rate Control

CBR/VBR

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	RAM						Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive				White Balance	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 Contro						Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number						Smart IR	Yes
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		'–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 1920×1080 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°				Network	
Iric Typo		6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° Fixed aperture				Network	RJ-45 (10/100 Base-T)
Iris Type Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
		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; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
	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
Professional						Management Software	Smart PSS, DSS, DMSS
Perimeter Prote	ction			tion of human		Mobile Phone	IOS; Android
Intelligent Searc	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Certification	
Video							CE-LVD: EN60950-1
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				Certifications	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)
		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280				Audio Output	1-channel (RCA port)
Resolution		× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Alarm Input	1 channel in: 5mA 3V–5V DC
Dit Data Control		CDD A/DD				Alarm Outnut	1 channel out: 300mA 12V/DC

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



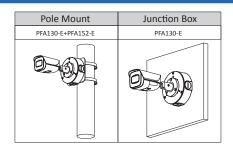
PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



Dimensions (mm[inch])

