

DH-IPC-HFW3241T-ZS

2MP Lite AI IR Vari-focal Bullet Network Camera



- \cdot 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: 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, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10(optional) protection
- SMD



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.

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.



Lite AI Series | DH-IPC-HFW3241T-ZS

Technical Specification

Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.002 Lux@F1.5			
IR Distance		60 m (197 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		4 (IR LEDs)			
Pan/Tilt/Rotation Range		Horizontal: 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		F1.5			
Field of View		Horizontal: 108°–28° Vertical: 57° –16° Diagonal: 130° –33°			
Iris Type		Fixed aperture			
Close Focus Distance		0.8 m (2.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	44.1 m (144.7 ft)	17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)
	т	153.1 m (502.3 ft)	61.2 m (200.8 ft)	30.6 m (82.9 ft)	15.3 m (50.2 ft)

Professional, Intelligent

Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)			
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			
Video				
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG			
Smart Codec	Yes			
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)			
Stream Capability	3 streams			
Resolution	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: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps			
Day/Night	Auto(ICR)/Color/B/W			

BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(RoI)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)		
Mirror	Yes		
Privacy Masking	4 areas		
Network			
Network	RJ-45 (10/100 Base-T)		
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP		
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec		
Scene Self-adaptation	Yes		
User/Host	20 (Total bandwidth: 64 M)		
Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS		
Browser	IE: IE8, IE9, IE11 Chrome 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/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		
Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 9.4W		
Environment			
Operating Conditions	-30°C to +60°C (-22°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	81 mm × Φ109.9 mm (3.2" × Φ4.3")		
Net Weight	378 g (0.8 lb)		

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Gross Weight

523 g (1.2 lb)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HFW3241TP-ZS	2MP Lite AI IR Vari-focal Bullet Network Camera,PAL			
	DH-IPC-HFW3241TN-ZS	2MP Lite AI IR Vari-focal 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			

PFA152-E

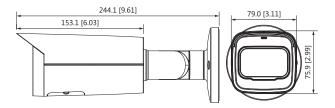
Pole Mount

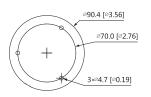
PFM900-E

Integrated Mount

tester

Dimensions (mm[inch])





Accessories

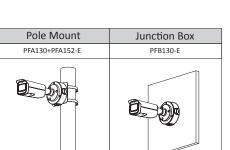
Optional:



PFA130-E Junction Box



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





PFM321D DC12V1A Power Adapter



PFM114 TLC SD card

