

DH-IPC-HFW3241T-ZS

2MP Lite AI IR Vari-focal Bullet Network Camera



- 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.



Day/Night

Auto(ICR)/Color/B/W

Technical Sp	ecificati	ion				BLC	Yes
Camera						HLC	Yes
Image Sensor		1/2.8"2Megapixel progressive CMOS				WDR	120 dB
Effective Pixels		1920 (H) ×1080 (V)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
ROM		128 MB				Gain Control	Auto/Manual
RAM		256 MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Region of Interest(RoI)	Yes (4 areas)
Min. Illumination		0.002 Lux@F1.5				Smart IR	Yes
IR Distance		60 m (197 ft)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
IR On/Off Control		Auto/Manual				inage Notation	resolution.)
IR LEDs Number		4 (IR LEDs)				Mirror	Yes
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–90°; rotation: 0°–360°				Privacy Masking	4 areas
Lens						Network	
Lens Type		Motorized vari-focal				Network	RJ-45 (10/100 Base-T)
Mount Type Focal Length		φ14 2.7 mm-13.5 mm				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
		F1.5				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Max. Aperture		Horizontal: 108°–28°				Scene Self-adaptation	Yes
Field of View		Vertical: 57° –16° Diagonal: 130° –33°				User/Host	20 (Total bandwidth: 64 M)
Iris Type		Fixed aperture				Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Close Focus Distance		0.8 m (2.6 ft)					IE: IE8, IE9, IE11
	Lens	Detect	Observe	Recognize	Identify	Browser	Chrome Firefox
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)	Management Software	Smart PSS, DSS, DMSS
	Т	153.1 m (502.3 ft)	61.2 m	30.6 m (82.9 ft)	15.3 m (50.2 ft)	Mobile Phone	IOS; Android
(502.3 ft) (200.8 ft) (82.9 ft) (50.2 ft) Professional, Intelligent		(30.2 10)	Certification				
Perimeter Prote	_	Tripwire; intrusion (Recognition of human and vehicle)					CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to 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
Video		videos				Power	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				Power Supply	12V DC/PoE (802.3af)
Smart Codec		Yes				Power Consumption	< 9.4W
Smart Couec		Main stream (1920 × 1080@1–25/30 fps)				Environment	
Video Frame Rate		sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps) third stream(1280 × 720@1–25/30 fps)				Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%
Stream Capability		3 streams				Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF				Ingress Protection	IP67
Pit Pata Control		(352 × 288/352 × 240)				Structure	
Bit Rate Control		CBR/VBR H 264: 3 Khns=8192 Khns				Casing	Metal
Video Bit Rate		H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps				Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
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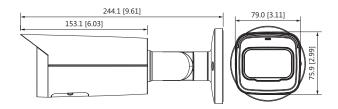
Net Weight

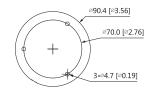
378 g (0.8 lb)

Gross Weight 523 g (1.2 lb)

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

Dimensions (mm[inch])





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

Pole Mount	Junction Box
PFA130+PFA152-E	PFB130-E

