

# HNC3I241R-IR-ZAS

4MP Lite AI IR Vari-focal Dome Network Camera



- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 40 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
- 12V DC/POE power support
- IP67, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

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						Day/Night	ICR auto switch
Camera						BLC	Yes
Image Sensor		1/2.7"4Megapixel progressive CMOS				WDR	120 dB
Effective Pixels		2688 (H) ×1520 (V)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
ROM		128 MB				Gain Control	Auto/Manual
RAM		512 MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutte	Electronic Shutter Speed		1/3 s-1/1000	00 s		Region of Interest(RoI)	Yes (4 areas)
Min. Illumination	1	0.005 Lux@F1.5				Smart IR	Yes
IR Distance	IR Distance		ft)			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)
IR On/Off Contro	ol	Auto/Manual				Mirror	Yes
IR LEDs Number		2 (IR LEDs)				Privacy Masking	4 areas
Pan/Tilt/Rotation	n Range	Horizontal: 0°–355°; vertical: 0°–75°; rotation: 0°–355°				Audio	, 3, 665
Lens Type		Motorized va	ri-focal			Audio Compression	G.711a; G.711Mu; G726; AAC
Mount Type	Lens Type  Mount Type					Network	G./11a, G./11iwid, G/20, AAC
		ф14 2.7 mm–13.5 mm					DI 45 (40/400 D T)
Focal Length  May Aperture		2.7 mm—13.5 mm F1.5				Network	RJ-45 (10/100 Base-T)
Max. Aperture Field of View		Horizontal: 104°–27° Vertical: 57° –15°				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP
		Diagonal: 124° –31°				Interoperability	ONVIF (Profile S/Profile G); CGI; P2P
Iris Type		Fixed aperture				Scene Self-adaptation	Yes
Close Focus Dista		0.8 m (2.6 ft)				User/Host	20 (Total bandwidth: 64 M)
	Lens	Detect	Observe	Recognize	Identify	Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
DORI Distance	W	151 m (495.4 ft) 400 m	60.7 m (199.2 ft) 160 m	30.3 m (99.4 ft) 80 m	15.1 m (49.5 ft) 40 m	Browser	IE IE8, IE9, IE11 Google
	Т	(1312.3 ft)	(524.9 ft)	(262.5 ft)	(131.2 ft)		Firefox
Professional, Intellige		ent				Management Software	NVR; DSS; DMSS; IVSS
Perimeter Protec	ction	Tripwire; intrusion (Recognition of human and vehicle)				Mobile Phone	IOS; Android
Intelligent Search	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Certification	CE-LVD: EN60950-1
Video						Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video Compression		H.265; H.264;	; H.264H; H.26	4B; MJPEG			UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Codec		H.264: Yes H.265: Yes				Port	
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25/30 fps) third stream (1280 × 720@1–25/30 fps)				Audio Input	1-channel (RCA port)
Stream Capability		3 streams				Alarm Input	1-channel (RCA port)  1 channel in: 5mA 3V–5V DC
		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×				Alarm Output	
Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Alarm Output	1 channel out: 300mA 12V DC
Bit Rate Control		× 240) CBR; VBR				Power	12V DC/DOE
		H.264: 3 Kbps–8192 Kbps				Power Supply	12V DC/POE
Video Bit Rate		H.265: 3 Kbps-8192 Kbps				Power Consumption	<7W

### 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; IK10		

#### Structure

Casing	Metal + plastic
Dimensions	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)

Ordering Information				
Туре	Part Number	Description		
4MP Camera	HNC3I241R-IR-ZAS	4MP Lite AI IR Vari-focal Dome Network Camera,PAL		
	HNC3I241R-IR-ZAS	4MP Lite AHR Vari-focal Dome Network Camera,NTSC		
	PFA137	Junction Box		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA200W	Rain Shade		
	PFA106	Mount Adapter		
Accessories	PFB220C	Celling Mount		
(optional)	PFB200C	In-Celling 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		

## **Accessories**

# **Optional:**







PFA137 Junction Box

PFB203W Wall Mount







PFA200W Rain Shade











PFB200C In-Celling 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

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Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

# Dimensions (mm[inch])



