

DH-IPC-HDBW3241R-ZAS

2MP Lite AI IR Vari-focal Dome 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: 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













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						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		40 m (131.23 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)	
IR On/Off Control		Auto/Manual					Mirror	Yes	
IR LEDs Number		2 (IR LEDs)					Privacy Masking	4 areas	
Pan/Tilt/Rotation Range		Horizontal: 0°	'–355°; vertica	l: 0°–75°; rotat	ion: 0°–355°		Audio		
Lens		Motorized va	ri-focal				Audio Compression	G.711a; G.711Mu; G726; AAC	
Lens Type Mount Type		Motorized vari-focal					Network	, , ,	
		ф14 2.7 mm—13.5 mm					Network	RJ-45 (10/100 Base-T)	
Focal Length Max Aperture							Network	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;	
Max. Aperture Field of View		F1.5 Horizontal: 108°–28° Vertical: 57° –16°					Protocol	DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP	
		Diagonal: 130° –33°					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Iris Type		Fixed aperture					Scene Self-adaptation	Yes	
Close Focus Dista	Close Focus Distance		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	44.1 m (144.7 ft) 153.1 m	17.6 m (57.7 ft) 61.2 m	8.8 m (28.9 ft) 30.6 m	4.4 m (14.4 ft) 15.3 m		Browser	IE: IE8, IE9, IE11 Chrome Firefox	
	Т	(502.3 ft)	(200.8 ft)	(82.9 ft)	(50.2 ft)			THEOX	
Professional,	Intellig	ent				Management Software	Smart PSS, DSS, DMSS		
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			
Video							Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Certifications	FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Smart Codec		Yes							
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream (704 × 576@1–25/30 fps)					Port Audio Input	1-channel (RCA port)	
Stream Capability		third stream (1280 × 720@1–25/30 fps) 3 streams					Audio Output	1-channel (RCA port)	
		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Alarm Input	1 channel in: 5mA 3V–5V DC	
Resolution							Alarm Output	1 channel out: 300mA 12V DC	
Bit Rate Control		CBR/VBR					Power		
Video Bit Rate		H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps					Power Supply	12V DC/PoE (802.3af)	
Day/Night		Auto(ICR)/Color/B/W					Power Consumption	<8W	

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		
2MP	DH-IPC-HDBW3241RP-ZAS	2MP Lite AI IR Vari-focal Dome Network Camera,PAL		
Camera	DH-IPC-HDBW3241RN-ZAS	2MP Lite AI IR 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

PFA152-E Pole Mount







PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount







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 $\mathsf{TLC}\,\mathsf{SD}\,\mathsf{card}$

	TIC
ı	256 100
U	230 321
-	

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])





