

DH-IPC-HDBW3241R-ZAS

2MP IR Vari-focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 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 (support the classification and accurate detection of vehicle and human)
- 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 supply
- IP67, IK10 protection
- · SMD Plus













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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

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 cm (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.



CBR/VBR

Bit Rate Control

Technical Specification				Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps			
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		1/2.8" 2Megapixel progressive CMOS				BLC	Yes	
Max. Resolution		1920 (H) ×1080 (V)				HLC	Yes	
ROM		128 MB					WDR	120 dB
RAM		256 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning System	1	Progressive						custom
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/10000	00 s			Gain Control	Auto/Manual
		0.002 Lux@F1.5 (Color, 30IRE) 0.0002 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)					Noise Reduction	3D DNR
Min. Illumination	1						Motion Detection	OFF/ON (4 areas, rectangular)
S/N Ratio		> 56 dB					Region of Interest(RoI)	Yes (4 areas)
Illumination Dist	ance	40 m (131.23 ft)					Smart Illumination	Yes
Illuminator On/C	Off Control	Auto/Manual					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Illuminator Num	ber	2 (IR LED)					Mirror	Yes
Pan/Tilt/Rotatio	n Range	Pan: 0°-355°; Tilt: 0°-75°; Rotation: 0°-355°				Privacy Masking	4 areas	
Lens						Audio		
Lens Type		Motorized vari-focal					Audio Compression	G.711a; G.711Mu; G726
Mount Type		ф14					Alarm	
Focal Length		2.7 mm-13.5 mm					7 (101)	No SD card; SD card full; SD card error; less service time
Max. Aperture Field of View		F1.5 Horizontal: 108°–28° Vertical: 57° –16° Diagonal: 130° –33°					Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Iris Type		Fixed					Nistrosula	
Close Focus Dista	ance	0.8 m (2.6 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
DON Distance	W	44.1 m	17.6 m	8.8 m	4.4 m		SDK and API	Yes
DORI Distance	Т	(144.7 ft) 153.1 m	(57.7 ft) 61.2 m	(28.9 ft) 30.6 m	(14.4 ft) 15.3 m		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional,	Intolligo	(502.3 ft)	(200.8 ft)	(82.9 ft)	(50.2 ft)			Video encryption; firmware encryption; configuration
,	J						Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Intelligent Search	h	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video							Scene Self-adaptation	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					(SSA) User/Host	20 (Total bandwidth: 64 M)
Smart Codec		Smart H.265+/ Smart H.264+						
		Main stream (1920 × 1080@1–25/30 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox
Stream Capabilit	У	3 streams					Management Software	Smart PSS, DSS, DMSS
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF				Mobile Phone	IOS; Android	
		(352 × 288/352 × 240)						

Certification

CE-LVD: EN62368-1
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

Port

Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8W

Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than 95%		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67; IK10		

Structure

Casing	Metal
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 Type Part Number Description 2MP IR Vari-focal Dome WizSense DH-IPC-HDBW3241RP-ZAS Network Camera,PAL 2MP Camera 2MP IR Vari-focal Dome WizSense DH-IPC-HDBW3241RN-ZAS Network Camera,NTSC PFA137 Junction Box PFB203W Wall Mount PFA152-E Pole Mount PFA200W Rain Shade PFA106 Mount Adapter PFB220C Celling Mount Accessories (optional) PFB200C In-Celling Mount DC12V1A Power Adapter PFM321D Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA137 Junction Box

L37 Pf n Box Wi





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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

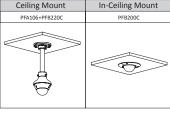


PFM900-E Integrated Mount tester

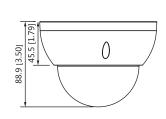


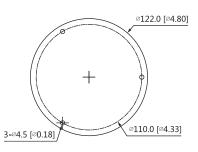
PFM114 TLC SD card

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



Dimensions (mm[inch])





Rev 001.001

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