

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) 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.





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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		Progressive					custom
Electronic Shutter S	Speed	Auto/Manual 1/3 s–1/100000 s				Gain Control	Auto/Manual
Min. Illumination		0.002 Lux@F1.5 (Color, 30IRE) 0.0002 Lux@F1.5 (B/W, 30IRE)				Noise Reduction Motion Detection	3D DNR OFF/ON (4 areas, rectangular)
S/N Ratio		0 Lux (Illuminator on) > 56 dB				Region of Interest(RoI)	Yes (4 areas)
Illumination Distance	ice	40 m (131.23 ft)				Smart Illumination	Yes
Illuminator On/Off	Control	Auto/Manual				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Illuminator Number	er	2 (IR LED)				Mirror	Yes
Pan/Tilt/Rotation 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					No SD card; SD card full; SD card error; less service time 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
Max. Aperture Field of View		F1.5 Horizontal: 108°–28° Vertical: 57° –16° Diagonal: 130° –33°				Alarm Event	
Iris Type		Fixed				Network	
Close Focus Distanc	ce	0.8 m (2.6 ft)				Network	RJ-45 (10/100 Base-T)
Le	ens	Detect	Observe	Recognize	Identify	SDK and API	Yes
DORI Distance W	1	44.1 m (144.7 ft)	17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
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)		Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional, Ir	ntellige	nt					Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Perimeter Protection	on	Tripwire; intrusion (Recognition of human and vehicle)				Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Intelligent Search		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+				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rate		Main stream $(1920 \times 1080@1-25/30 \text{ fps})$ sub stream $(704 \times 576@1-25 \text{ fps}/704 \times 480@1-30 \text{ fps})$ third stream $(1280 \times 720@1-25/30 \text{ fps})$				Browser	IE: IE8, IE9, IE11 Chrome Firefox
Stream Capability		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 (352 × 288/352 × 240)				Mobile Phone	IOS; Android
Bit Rate Control		CBR/VBR			Certification		

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CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive Certifications 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 PFM321D DC12V1A Power Adapter 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

PFB203W

PFA152-E Wall Mount 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



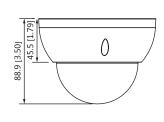
PFM900-E Integrated Mount tester

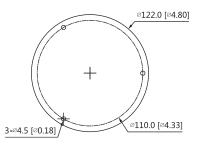


PFM114 TLC SD card

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])





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