

DH-IPC-HDBW3241R-ZS

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, 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 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.



Bit Rate Control

CBR/VBR

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	RAM						White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning Syster	Scanning System		Progressive				Gain Control	custom Auto/Manual
Electronic Shutt	ter Speed	Auto/Manual 1/3 s-1/100000 s					Noise Reduction	3D DNR
Min. Illumination		0.002 Lux@F1.5 (Color, 30IRE) 0.0002 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)					Motion Detection	OFF/ON (4 areas, rectangular)
S/N Ratio		> 56 dB					Region of Interest(RoI)	Yes (4 areas)
Illumination Dis	tance	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 Nun	Illuminator Number						Mirror	Yes
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°					Privacy Masking	4 areas
Lens							Alarm	
Lens Type		Motorized vari-focal					Alarm Event	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; scene changing; intensity
Mount Type Focal Length		φ14 2.7 mm–13.5 mm						
		F1.5						change; tripwire; intrusion; SMD
Max. Aperture		Horizontal: 10	08°–28°				Network	
Field of View	Field of View		-16°)° –33°				Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed					SDK and API	Yes
Close Focus Distance		0.8 m (2.6 ft)					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
DORI Distance	Lens W	Detect 44.1 m (144.7 ft)	Observe 17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Duefessions	T	153.1 m (502.3 ft)	61.2 m (200.8 ft)	30.6 m (82.9 ft)	15.3 m (50.2 ft)		Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Professional	, 0		usian (Dagagni	tion of human	and vahiala)		Scene Self-adaptation (SSA)	Yes
Perimeter Prote	ection	Tripwire; intrusion (Recognition of human and vehicle) Work together with Smart NVR to perform refine					User/Host	20 (Total bandwidth: 64 M)
Intelligent Searc	Intelligent Search				erging to event		Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video		videos					Browser	IE: IE8, IE9, IE11 Chrome Firefox
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Management Software	
Smart Codec		Yes					Management Software Mobile Phone	Smart PSS, DSS, DMSS IOS; Android
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps) third stream(1280 × 720@1–25/30 fps)					Certification	
Stream Capability		3 streams						CE-LVD: EN62368-1
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Certifications	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

Power

Wiz Sense | DH-IPC-HDBW3241R-ZS

12V DC/PoE (802.3af)		
<8W		
-30°C to +60°C (-22°F to +140°F)/less than 95%		
-40°C to +60°C (-40°F to +140°F)		
IP67; IK10		
Metal		

492 g (1.1 lb)

663 g (1.5 lb)

Φ122 mm × 88.9 mm (Φ4.8" × 3.5")

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-IPC-HDBW3241RP-ZS	2MP IR Vari-focal Dome WizSense Network Camera, PAL				
	DH-IPC-HDBW3241RN-ZS	2MP IR Vari-focal Dome WizSense 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



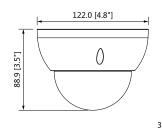
PFM900-E Integrated Mount tester

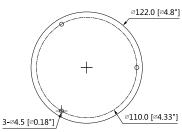


PFM114 TLC SD card

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])





Dimensions

Net Weight

Gross Weight