

# DH-IPC-HDBW3241R-ZS

2MP IR Vari-focal Dome WizSense Network Camera



**WizSense**

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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.

- 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.

## WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

## 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 work 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## 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.

Technical Specification							
Camera						Day/Night	Auto(ICR)/Color/B/W
Image Sensor						BLC	Yes
Max. Resolution						HLC	Yes
ROM						WDR	120 dB
RAM						White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Scanning System						Gain Control	Auto/Manual
Electronic Shutter Speed						Noise Reduction	3D DNR
Min. Illumination						Motion Detection	OFF/ON (4 areas, rectangular)
S/N Ratio						Region of Interest(Rol)	Yes (4 areas)
Illumination Distance						Smart Illumination	Yes
Illuminator On/Off Control						Image Rotation	0°/90°/180°/270°(Support 90°/270°with 1920 × 1080 resolution and lower.)
Illuminator Number						Mirror	Yes
Pan/Tilt/Rotation Range						Privacy Masking	4 areas
Pan: 0°~355° Tilt: 0°~75° Rotation: 0°~355°						Alarm	
Lens						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 change; tripwire; intrusion; SMD
Lens Type						Network	
Mount Type						Network	RJ-45 (10/100 Base-T)
Focal Length						SDK and API	Yes
Max. Aperture						Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Field of View						Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Iris Type						Scene Self-adaptation	Yes
Close Focus Distance						User/Host	20 (Total bandwidth: 64 M)
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
	W	44.1 m (144.7 ft)	17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)	Browser	IE: IE8, IE9, IE11 Chrome Firefox
	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)	Management Software	Smart PSS, DSS, DMSS
Professional, Intelligent						Mobile Phone	IOS; Android
Perimeter Protection						Certification	
Intelligent Search						Certifications	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
Video						Power	
Video Compression						Power Supply	12V DC/PoE (802.3af)
Smart Codec						Power Consumption	<8W
Video Frame Rate						Environment	
Stream Capability							
Resolution							
Bit Rate Control							
Video Bit Rate							

Operating Conditions	-30℃ to +60℃ (-22℉ to +140℉)/less than 95%
Storage Conditions	-40℃ to +60℃ (-40℉ to +140℉)
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)



PFB200C  
In-Ceiling Mount



PFM321D  
DC12V1A Power  
Adapter



LR1002-1ET/1EC  
Single-port long  
reach ethernet over  
coax extender



PFM900-E  
Integrated Mount  
tester



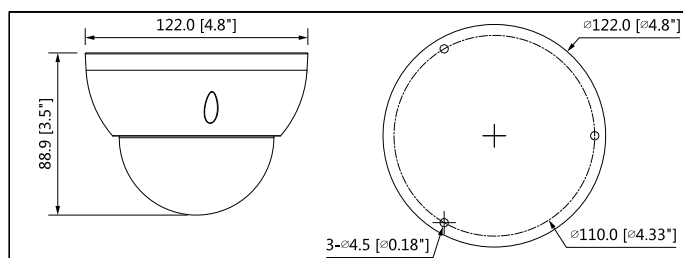
PFM114  
TLC SD card

## Ordering Information

Type	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
Accessories (optional)	PFA137	Junction Box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFA200W	Rain Shade
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount
	PFB200C	In-Ceiling 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])



## Accessories

### Optional:



PFA137  
Junction Box



PFB203W  
Wall Mount



PFA152-E  
Pole Mount



PFA200W  
Rain Shade



PFA106  
Mount Adapter



PFB220C  
Ceiling Mount