



# 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 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.

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



Technical Sp	ecificatio	on					Day/Night	Auto(ICR)/Color/B/W	
Camera						BLC	Yes		
Image Sensor		1/2.8"2Megapixel progressive CMOS					HLC	Yes	
Max. Resolution		1920 (H) ×1080 (V)					WDR	120 dB	
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
RAM		256 MB					Gain Control	Auto/Manual	
Scanning System		Progressive					Noise Reduction	3D DNR	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Motion Detection	OFF/ON (4 areas, rectangular)	
Min. Illumination		0.002 Lux@F1.5					Region of Interest(RoI)	Yes (4 areas)	
S/N Ratio		> 56 dB					Smart Illumination	Yes	
Illumination Distance		40 m (131.23 ft)						0°/90°/180°/270° (Support 90°/270° with 1920 × 1080	
Illuminator On/C	Off Control	Auto/Manual					Image Rotation	resolution and lower.)	
Illuminator Number		2 (IR LED)					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 change; tripwire; intrusion; SMD	
Mount Type		ф14							
Focal Length		2.7 mm-13.5 mm							
Max. Aperture		F1.5					Network		
Field of View		Horizontal: 108°–28° Vertical: 57° –16° Diagonal: 130° –33°					Network	RJ-45 (10/100 Base-T)	
Iris Type		Fixed	, 33				SDK and API	Yes	
Close Focus Distance		0.8 m (2.6 ft)					Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NF5;PPPoE;802.1x;SNMP	
	Lens	Detect	Observe	Recognize	Identify				
DORI Distance	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)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
	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)		Scene Self-adaptation	Yes	
Professional,	Intellige				User/Host	20 (Total bandwidth: 64 M)			
Perimeter Protec	_	Tripwire; intrusion (Recognition of human and vehicle)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Video		Videos					Management Software	Smart PSS, DSS, DMSS	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG					Mobile Phone	IOS; Android	
Smart Codec		Yes					Certification		
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)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Stream Capability		3 streams						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power	12V DC ID-F (002.2. <sup>1</sup> )	
Dit Data Control		CBR/VBR					Power Supply	12V DC/PoE (802.3af)	
Bit Rate Control		CDN/ V DK					Power Consumption	<8W	

Environment

H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps

Video Bit Rate

## Wiz Sense | DH-IPC-HDBW3241R-ZS

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



PFB200C In-Celling Mount



PFM321D DC12V1A Power Adapter



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



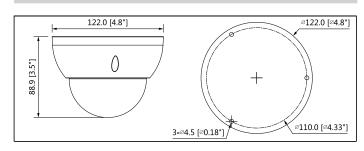
PFM900-E Integrated Mount tester



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		
	6		

## Dimensions (mm[inch])



## Accessories

## **Optional:**







PFB203W Wall Mount



PFA152-E Pole Mount







PFA106 Mount Adapter



PFB220C Celling Mount