

# DH-IPC-HDBW3441R-ZS

4MP IR Vari-focal Dome WizSense Network Camera



Wiz Sense

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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





## Wiz Sense | DH-IPC-HDBW3441R-ZS

Technical Specification				Bit Rate Control	CBR/VBR			
Camera					Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps		
Image Sensor		1/3"4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W
Max. Resolution		2688 (H) ×1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		512 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	custom Auto/Manual
Min. Illumination		0.005 Lux@F1.5					Noise Reduction	3D DNR
S/N Ratio		> 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/Off Control		Auto/Manual					Smart Illumination	Yes
Illuminator Number		2 (IR LED)						0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Pan/Tilt/Rotatio	n Range	Pan: 0°-355°	; Tilt: 0°–75°; f	Rotation: 0°–3	55°		Image Rotation	resolution and lower.)
Lens							Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		ф14					Alarm	
Focal Length  Max. Aperture		2.7 mm–13.5 mm F1.5					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
Field of View		Horizontal: 104°–27°						exception; motion detection; scene changing; intensity change; tripwire; intrusion; SMD
ricia or view		Vertical: 55° –15° Diagonal: 124° –31°					Network	
Iris Type	Iris Type		Fixed				Network	RJ-45 (10/100 Base-T)
Close Focus Distance		0.8 m (2.6 ft)					SDK and API	Yes
DODI Distance	Lens	Detect 64.0 m	Observe 25.6 m	Recognize	Identify 6.4 m		Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NF5;PPPoE;802.1x;SNMP
DORI Distance	VV	(210.0 ft) 222.0 m	(84.0 ft) 88.8 m	(42.0 ft) 44.4 m	(21.0 ft) 22.2 m		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
	Т	(728.3 ft)	(291.3 ft)	(145.7 ft)	(72.8 ft)		Scene Self-adaptation	Yes
Professional	, Intellige	ent	nt				User/Host	20 (Total bandwidth: 64 M)
Perimeter Prote	ction	Tripwire; intrusion (Recognition of human and vehicle)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Intelligent Searc	h	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							Management Software	Smart PSS, DSS, DMSS
Video Compress	ion	H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Mobile Phone	IOS; Android
Smart Codec		Smart H.265+/ Smart H.264+					Certification	
Video Frame Rate		Main stream (2688 × 1520@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 UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Stream Capability		3 streams					Power	
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704					Power Supply	12V DC/PoE (802.3af)
		× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power Consumption	<8.5W



#### 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)

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Ordering Information							
Туре	Part Number	Description					
4MP Camera	DH-IPC-HDBW3441RP-ZS	4MP IR Vari-focal Dome WizSense Network Camera,PAL					
	DH-IPC-HDBW3441RN-ZS	4MP 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					



PFB200C

In-Celling Mount



PFM321D DC12V1A Power Adapter



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



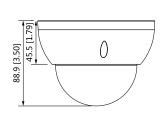
PFM900-E Integrated Mount tester

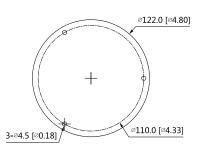


PFM114 TLC SD card

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])





## Accessories

## **Optional:**



PFA137

Junction Box



PFM900-E

PFM114





PFA152-E Pole Mount

over Coax Extender

TLC SD Card

Integrated Mount Tester



PFA200W

Rain Shade



PFB203W

Wall Mount







PFA106 Mount Adapter

PFB220C Celling Mount



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