

# DH-IPC-HDBW3441R-ZAS

4MP 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.

- 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, 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.





# **Wiz Sense** | DH-IPC-HDBW3441R-ZAS

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	Scanning System		Progressive					Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				White Balance	custom	
	2.cct one shatter speed		0.005 Lux@F1.5 (Color, 30IRE)				Gain Control	Auto/Manual
Min. Illumination	on	0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				Noise Reduction	3D DNR	
S/N Ratio		> 56 dB				Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Dis	stance	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)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°				Mirror	Yes	
Lens Type		Materized yesi facel				Privacy Masking	4 areas	
Mount Type		Motorized vari-focal				Audio		
Focal Length		ф14 2.7 mm—13.5 mm				Audio Compression	G.711a; G.711Mu; G726	
Max. Aperture						Alarm		
Field of View		F1.5  Horizontal: 104°–27°  Vertical: 55° –15°  Diagonal: 124° –31°				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; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Iris Type		Fixed						
Close Focus Distance		0.8 m (2.6 ft)				·		
	Lens	Detect	Observe	Recognize	Identify		Network	
DORI Distance	W	64.0 m	25.6 m	12.8 m	6.4 m		Network	RJ-45 (10/100 Base-T)
DOM Distance		(210.0 ft) 222.0 m	(84.0 ft) 88.8 m	(42.0 ft) 44.4 m	(21.0 ft) 22.2 m		SDK and API	Yes
Professiona	T I, Intellige	(728.3 ft)	(291.3 ft)	(145.7 ft)	(72.8 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
Perimeter Prote	•	Tripwire; intrusion (Recognition of human and vehicle)					Video encryption; firmware encryption; configuration	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Cyber Security	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	
Video		Hass Hass Hassell Hasse Aupts/				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Scene Self-adaptation (SSA)	Yes	
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20 (Total bandwidth: 64 M)	
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Stream Capability		third stream (1280 × 720@1–25/30 fps) 3 streams				Browser	IE: IE8, IE9, IE11 Chrome	
,		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×				Manager	Firefox	
Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Management Software  Mobile Phone	Smart PSS, DSS, DMSS IOS; Android	

# Wiz Sense | DH-IPC-HDBW3441R-ZAS

## Certification

	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	<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)

#### **Ordering Information** Type Part Number Description 4MP IR Vari-focal Dome WizSense DH-IPC-HDBW3441RP-ZAS Network Camera,PAL 4MP Camera 4MP IR Vari-focal Dome WizSense DH-IPC-HDBW3441RN-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

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## **Accessories**

# **Optional:**









PFA152-E

Pole Mount

PFA137 Junction Box

PFB203W Wall 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		

Ceiling Mount	In-Ceiling Mount
PFA106+PFB220C	PFB200C

# Dimensions (mm[inch])





