

# 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.



Technical Sp	ecificatio	on					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 Shutt	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					custom
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)					Gain Control  Noise Reduction	Auto/Manual 3D DNR
S/N Ratio		> 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dis	tance	40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/	Off Control						Smart Illumination	Yes
Illuminator Number		2 (IR LED)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1920\times1080$ resolution and lower.)
Pan/Tilt/Rotation	Pan/Tilt/Rotation Range		Pan: 0°-355°; Tilt: 0°-75°; Rotation: 0°-355°				Mirror	Yes
Lens						Privacy Masking	4 areas	
Lens Type		Motorized vari-focal				Audio		
Mount Type		ф14				Audio Compression	G.711a; G.711Mu; G726	
Focal Length		2.7 mm-13.5 mm				Alarm		
Max. Aperture  Field of View  Iris Type		F1.5  Horizontal: 104°–27°  Vertical: 55° –15°  Diagonal: 124° –31°  Fixed					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;
Close Focus Dist	tance	0.8 m (2.6 ft)					intrusion; SMD	
close i deas bis	Lens	Detect	Observe	Recognize	Identify		Network	
		64.0 m	25.6 m	12.8 m	6.4 m		Network	RJ-45 (10/100 Base-T)
DORI Distance	W	(210.0 ft)	(84.0 ft)	(42.0 ft)	(21.0 ft)		SDK and API	Yes
Professional	T   Intellige	222.0 m (728.3 ft)	88.8 m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (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
			ision (Recogni	tion of human	and vehicle)			
Perimeter Protection  Intelligent Search		Tripwire; intrusion (Recognition of human and vehicle)  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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
Video						Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;	
Video Compress	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Scene Self-adaptation	Genetec Yes
Smart Codec		Smart H.265+/ Smart H.264+					(SSA) 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) third stream (1280 × 720@1–25/30 fps)				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Stream Capability		3 streams					Browser	IE: IE8, IE9, IE11 Chrome Firefox
		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704				Management Software	Smart PSS, DSS, DMSS	
Resolution	Resolution		1060); 1.5M (1260 × 960); 720) (1260 × 720); 01 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Mobile Phone	IOS; Android
		^ 240]						

## Certification

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
	0L/COL. 0L00930-1 CAN/C3A C22.2 NO.00930-1-07

## 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

## Accessories

## **Optional:**







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



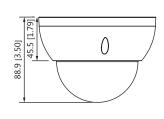
PFM900-E Integrated Mount tester

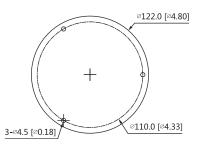


PFM114 TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

# Dimensions (mm[inch])





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