



# DH-IPC-HDBW3441RP-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 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) 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Diagonal: 124° –31°  Alarm Event    P conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD    Close Focus Distance	Technical Sp	pecification	on					Bit Rate Control	CBR/VBR
Max. Revolution	Camera							Video Bit Rate	·
ROM	Image Sensor		1/3"4Megapixel progressive CMOS					Day/Night	i i
Math	Max. Resolution	ı	2688 (H) ×1520 (V)					BLC	Yes
Min.   Illuminator   Professive   Profess	ROM		128 MB					HLC	Yes
Min.	RAM		512 MB					WDR	120 dB
Electronic Shutter   Speed   AutoNatamal   17 ± 17 ± 1000001   Speed   Spee	Scanning Syster	n	Progressive					White Balance	
Min. Illumination	Electronic Shut	ter Speed	Auto/Manual 1/3 s–1/100000 s						
Region of Interest(Rol)   Yes (4 areas)	Min. Illuminatio	n	0.0005 Lux@F1.5 (B/W, 30IRE)						
Minimator On/Off Control   Auto/Manual   Smart Illumination   Yes	S/N Ratio							Motion Detection	OFF/ON (4 areas, rectangular)
Image Rotation Number   2 (R LED	Illumination Dis	tance	40 m (131.23	ft)				Region of Interest(RoI)	Yes (4 areas)
Pan/Thi/Khotation Range	Illuminator On/	Off Control						Smart Illumination	Yes
Lens	Illuminator Nun	nber						Image Rotation	
Privary Masking	Pan/Tilt/Rotation	on Range	Pan: 0°-355°;	: Tilt: 0°–75°; f	Rotation: 0°–3	55°		Mirror	Yes
Mount Type							Privacy Masking	4 areas	
Audio Compression   G.711a; G.711Mu; G726   Alarm								Audio	
Max. Aperture								Audio Compression	G.711a; G.711Mu; G726
Field of View							Alarm		
Intrusion; SMD	Field of View		Horizontal: 104°–27° Vertical: 55° –15° Diagonal: 124° –31°					Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene
Lens		tance						intrusion; SMD	
DORI Distance				Observe	Recognize	Identify		Network	
T (22.0 mt (29.3 ft) (44.5 mt) (42.0 ft) (21.0 ft) (21.0 ft) (22.2 mt) (72.8 ft) (29.3								Network	RJ-45 (10/100 Base-T)
Professional, Intelligent  Professional, Intelli	DORI Distance	VV						SDK and API	Yes
Perimeter Protection Tripwire; intrusion (Recognition of human and vehicle)  Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event videos  Video  Video Compression Video Compression  Wain stream (2688 × 1520@1–25/30 fps) sub tream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)  Stream Capability  Tripwire; intrusion (Recognition of human and vehicle)  Cyber Security  Interoperability  Cyber Security  Cyber Security  Cyber Security  Interoperability  Cyber Security  Interoperability  ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec  Scene Self-adaptation (SSA)  Ves  User/Host  20 (Total bandwidth: 64 M)  Storage  FTP; SFTP; Micro SD Card (support max. 256 G); NAS  third stream (1280 × 720@1–25/30 fps)  Browser  Resolution  Resolution  Amanagement Software  Smart PSS, DSS, DMSS	Professiona		(728.3 ft)					Protocol	
Intelligent Search  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos  Video  Video Compression  Video Compression  Wash together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos  Video Compression  Wideo Compression  Wash together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos  Video Compression  Wideo Compression  Wash together with Smart NVR to perform refine encryption; Dirmware encryption; Contiguration encryption; Dirmware encryption; Disposition on the propertion of the properties of the p		_		usion (Recogni	tion of human	and vehicle)			
Note	Intelligent Searc	ch	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					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
Video Compression         H.265; H.264; H.264H; M.264H; M.PEG(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) third stream (1280 × 720@1-25/30 fps)         Storage         FTP; SFTP; Micro SD Card (support max. 256 G); NAS           Stream Capability         3 streams         IE: IE8, IE9, IE11         Chrome Firefox           Resolution         4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352         Management Software         Smart PSS, DSS, DMSS	Video							Interoperability	
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) third stream (1280 × 720@1-25/30 fps)         Storage         FTP; SFTP; Micro SD Card (support max. 256 G); NAS           Stream Capability         3 streams         IE: IE8, IE9, IE11           Chrome Firefox         Chrome Firefox           4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352         Management Software         Smart PSS, DSS, DMSS	Video Compression								
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 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352         Management Software         Smart PSS, DSS, DMSS	Smart Codec		Smart H.265+/ Smart H.264+						20 (Total bandwidth: 64 M)
Stream Capability   3 streams   Browser   Chrome Firefox	Video Frame Rate		sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)						
4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352	Stream Capability							Browser	Chrome
x 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352	Resolution						Management Software		
				× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352				Mobile Phone	IOS; Android

## 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

## 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:**





PFB203W Junction Box



PFA137

Wall Mount



Pole 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



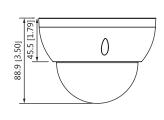
PFM900-E Integrated Mount tester

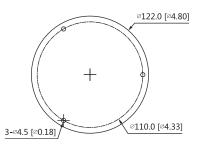


PFM114 TLC SD card

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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