

# DH-IPC-HDBW3841R-ZAS

8MP IR Vari-focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of AI 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.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @20 fps and 2592 × 1944 @25/30 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 detection (Only - ZAS supports), no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only - ZAS supports)
- · 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.



Technical Sp	ecificatio	on						Main stream (3840×2160@1–20 fps)
Camera							Video Frame Rate	(2592 × 1944 @1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 1080@1–25/30 fps)
Image Sensor		1/2.8"8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 21	.60 (V)				Stream Capability	3 streams
ROM		128 MB						8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 ×
RAM		512 MB						
Scanning System			Progressive				Resolution	1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutte	r Speed	Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination	1	0.007 Lux @F1.5				Bit Rate Control	CBR/VBR	
S/N Ratio		>56 dB						H.264: 3 kbps-8192 kbps
Illumination Dista	ance	40 m (131.2 ft)				Video Bit Rate	H.265: 3 kbps–8192 kbps	
Illuminator On/O	off Control	Auto/Manual					Day/Night	Auto (ICR)/Color/B/W
Illuminator Numl	ber	2 (IR LED)					BLC	Yes
		Pan: 0°–355°				HLC	Yes	
Pan/Tilt/Rotation	n Range	Tilt: 0°-75° Rotation: 0°-355°				WDR	120 dB	
Lens						Scene Self-adaptation	Yes	
Lens Type		Motorized vari-focal				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Mount Type		ф14					Gain Control	Auto/Manual
Focal Length		2.7 mm-13.5 mm				Noise Reduction	3D DNR	
Max. Aperture		F1.5				Motion Detection	OFF/ON (4 areas, rectangular)	
		Horizontal: 113°–31°				Region of Interest (RoI)	Yes (4 areas)	
Field of View	Field of View		Vertical: 58°–17° Diagonal: 138°–36°				Smart Illumination	Yes
Iris Type		Fixed				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)	
Close Focus Dista	ance	0.8 m (2.6 ft)				Mirror	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s				Privacy Masking	4 areas	
	Lens	Detect	Observe	Recognize	Identify		Audio	
		85.3 m	34.1 m	17.0 m	8.5 m		Audio Compression	G.711a; G.711Mu; G726; AAC (Only- ZAS supports)
DORI Distance	W	(279.9 ft)	(111.9 ft)	(55.8 ft)	(27.9 ft)		Alarm	
	Т	280.0 m (918.6 ft)	112.0 m (367.5 ft)	56.0 m (183.7 ft)	28.0 m (91.9 ft)			- ZAS:
Professional,	intellige	nt						No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS:  No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						
Video							Network	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Network	RJ-45 (10/100 Base-T)	
Smart Codec	Smart Codec		Smart H.265+/ Smart H.264+				SDK and API	Yes
Smart Codec		SINAL FILZUST/ SINAL FILZUST						

Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec
User/Host	20 (Total bandwidth: 72 M)
Storage	Dahua Cloud (only supported by Dahua version); FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
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
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## Port

Audio Input	1 channel (RCA port) (Only- ZAS supports)
Audio Output	1 channel (RCA port) (Only- ZAS supports)
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)

#### Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8.2W

## Environment

Operating Conditions	−30°C to +60°C (−22°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10

## Structure

Casing	Metal
Dimensions	88.9 mm × Φ122 mm (3.5" × Φ4.8")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)

Ordering Information			
Туре	Part Number	Description	
	DH-IPC-HDBW3841RP-ZAS	8MP IR Vari-focal Dome WizSense Network Camera, PAL	
8MP	DH-IPC-HDBW3841RN-ZAS	8MP IR Vari-focal Dome WizSense Network Camera, NTSC	
Camera	DH-IPC-HDBW3841RP-ZS	8MP IR Vari-focal Dome WizSense Network Camera, PAL	
	DH-IPC-HDBW3841RN-ZS	8MP IR Vari-focal Dome WizSense Network Camera, NTSC	

	PFA137	Junction Box
	PFA200W	Rain Shade
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFA106	Mount Adapter
Accessories (optional)	PFB220C	Celling Mount
(ориона)	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

## **Accessories**

## Optional:



PFA137

Junction Box





PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



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

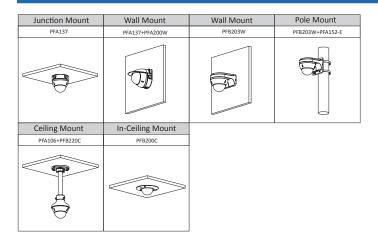


PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

## Wiz Sense | DH-IPC-HDBW3841R-ZAS



## Dimensions (mm[inch])

