

DH-IPC-HDBW2841R-Z(A)S

8MP IR Vari-focal Dome WizSense Network Camera



Wiz Sense

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.

System Overview

With advanced deep learning algorithm, Dahua WizSense 2 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. • 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, audio detection, 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; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- SMD Plus.



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.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera	
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Camera						
Image Sensor		1/2.7" CMOS				
Max. Resolut	ion	3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		256 MB				
Scanning Syst	tem	Progressive				
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s				
Min. Illumina	tion	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination [Distance	40 m (131.23 ft) (IR)				
Illuminator O	n/Off Control	trol Auto; Manual				
Illuminator N	Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Lens Mount ϕ_{14}		ф14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		H: 113°–31°; V: 58°–18°; D: 138°–36°				
Iris Control		Fixed				
Close Focus D	stance 0.8 m (2.62 ft)					
	Lens	Detect	Observe	Recognize	Identify	
DORI	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
	Т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (97.86 ft)	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool.					

Intelligence

Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart H.265+; Smart H.264+

Video Frame Rate	Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) Third stream: @1fps *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	3 streams
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto;Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network 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; Boujour
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS

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Storage Humidity ≤95% Protection IP67; IK10 Structure Casing Material Metal Product Dimensions 93.4 mm × Φ122 mm (3.68" × Φ4.80") Net Weight -ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) Gross Weight -ZS: 0.66 kg (1.46 lb)	Operating Humidity	≤95%
Protection IP67; IK10 Structure Casing Material Metal Product Dimensions 93.4 mm × Φ122 mm (3.68" × Φ4.80") Net Weight -ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) Gross Weight -ZS: 0.66 kg (1.46 lb)	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Structure Casing Material Metal Product Dimensions 93.4 mm × Φ122 mm (3.68" × Φ4.80") -ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) Gross Weight -ZS: 0.66 kg (1.46 lb)	Storage Humidity	≤95%
Casing Material Metal Product Dimensions 93.4 mm × Φ122 mm (3.68" × Φ4.80") Net Weight -ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) Gross Weight -ZS: 0.66 kg (1.46 lb)	Protection	IP67; IK10
Product Dimensions 93.4 mm × Φ122 mm (3.68" × Φ4.80") Net Weight -ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) Gross Weight -ZS: 0.66 kg (1.46 lb)	Structure	
-ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb) -ZS: 0.66 kg (1.46 lb)	Casing Material	Metal
-ZAS: 0.51 kg (1.12 lb) -ZS: 0.66 kg (1.46 lb)	Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")
(aross Weight	Net Weight	
	Gross Weight	

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-HDBW2841R-ZAS	8MP IR Vari-focal Dome WizSense Network Camera	
SIVIP Camera	DH-IPC-HDBW2841R-ZS	8MP IR Vari-focal Dome WizSense Network Camera	
	PFA137	Junction Box	
	PFB203W	Wall Mount Bracket	
	PFA109	Mount Adapter	
Accessories	PFB220C	Ceiling Mount Bracket	
(Optional)	PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	РҒМ900-Е	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories





PFA137

Junction

Box

PFB220C Ceiling Mount Bracket

PFM900-E Integrated Mount Tester



PFB203W Wall Mount Bracket



PFA109 Mount Adapter



PFA152-E Pole Mount Bracket



TF-P100 MicroSD Memory Card

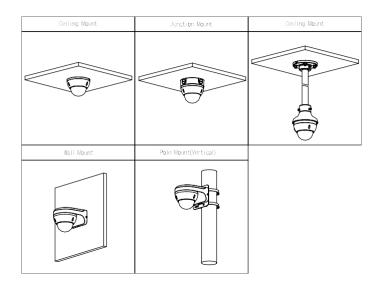
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PFM321D 12 VDC 1A Power Adapter

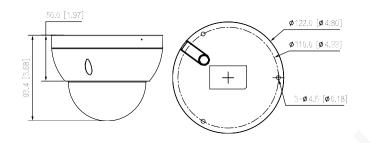




Wiz Sense | DH-IPC-HDBW2841R-Z(A)S



Dimensions (mm[inch])



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