



DH-IPC-HDBW2541R-Z(A)S

5MP 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.

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

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (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, 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.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- · SMD Plus.













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 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% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Stream Capability

2 streams

Technical	Specification	on						5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);
Camera							Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2592 (H) × 1944 (V)					Video Bit Rate	H.264: 3 kbps-8192 kbps
ROM		128 MB						H.265: 3 kbps–8192 kbps
RAM		512 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Adia Illustiant		0.005 lux@F1.5(Color,30 IRE)					WDR	120 dB
Min. Illumination		0.0005 lux@F1.5(B/W,30 IRE) 0 lux (Illuminator on)					Scene Self-adaptation (SSA)	Yes
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination Distance		40 m (131.23 ft) (IR LED)					Gain Control	Auto;Manual
Illuminator On/Off Control		Auto; Manual					Noise Reduction	3D DNR
Illuminator Number		2 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°					Region of Interest (RoI)	Yes (4 areas)
Lens	Long		555				Smart Illumination	Yes
Lens Type		Motorized vari-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Lens Mount	Lens Mount						Mirror	Yes
Focal Length		2.7 mm-13.5 mm					Privacy Masking	4 areas
Max. Aperture		F1.5					Audio	
Field of View	Field of View		H: 100°–30°				Audio Compression	G.711a; G.711Mu; PCM; G.726 (Only- ZAS supports)
rielu di view		V: 72° –23° D: 134° –38°					Alarm	
Iris Control		Fixed						-ZAS:No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene
Close Focus	Close Focus Distance		0.8 m (2.62 ft)					
	Lens	Detect	Observe	Recognize	Identify		Alarm Event	changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS:No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception
DORI Distance	W	64.4 m (211.29 ft)	25.8 m (84.65 ft)	12.9 m (42.32 ft)	6.4 m (21.00 ft)			
	Т	221.4 m (726.37 ft)	88.6 m (290.68 ft)	44.3 m (145.34 ft)	22.1 m (72.51 ft)			
Intelligence		(720.071.0)	(230.00 10)	(11010111)	(72.02.10)		Network	
irremgen	intelligence		wire (the two	functions supp	ort the		Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					SDK and API	Yes
Smart Searc	Smart Search			IVR to perform raction and me	refine erging to event		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
Video								execution; trusted upgrade
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					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; SAMBA; PPPoE; SNMP
Smart Codec		Smart H.265+; Smart H.264+ Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video Frame Rate		(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30					User/Host	20 (Total bandwidth: 64 M)
0 1 1111		fps)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Stream Capability		2 streams						

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Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Port			
Audio Input	1 channel (RCA port) (Only- ZAS supports)		
Audio Output	1 channel (RCA port) (Only- ZAS supports)		
Alarm Input	1 channel in: 5 mA 3–5 VDC (Only- ZAS supports)		
Alarm Output	1 channel out: 300 mA 12 VDC (Only- ZAS supports)		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 3.1 W (12 VDC); 4 W (PoE) Max(WDR + IR intensity + Intelligence on): 6.9 W (12 VDC); 8.1 W (PoE)		
Environment			
Operating Temperature	-30 °C to +60 °C (−22 °F to +140 °F)		
Operating Humidity	≤95%		

-40 °C to +60 °C (-40 °F to +140 °F)

88.9 mm × Φ122 mm (3.50" × Φ4.80")

IP67; IK10

Metal

492g (1.08 lb)

663g (1.46 lb)

Storage Temperature

Product Dimensions

Protection

Structure

Net Weight

Gross Weight

Casing

Ordering Information							
Туре	Model	Description					
5MP Camera	DH-IPC-HDBW2541R-ZS	5MP IR Vari-focal Dome WizSense Network Camera					
Sivir Calliera	DH-IPC-HDBW2541R-ZAS	5MP IR Vari-focal Dome WizSense Network Camera					
	PFA137	Junction Box Bracket					
	PFB203W	Wall Mount					
	PFA109	Mount Adapter					
	PFB200C	In-ceiling Mount Bracket					
Accessories (Optional)	PFB220C	Ceiling Mount Bracket					
, , ,	PFA152-E	Pole Mount					
	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional:



Bracket





PFB203W Wall Mount



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFB200C In-ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V DC 1A Power Adapter

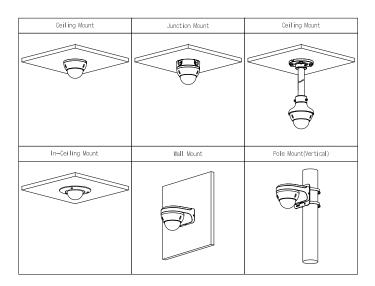


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

