

DH-IPC-HDBW3541R-ZS

5MP IR Vari-focal Dome WizSense Network Camera



Wiz Sense

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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 \times 1944) @20 fps, and supports 4MP (2688 \times 1520) @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 tempering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 protection
- SMD Plus













Starligh

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		1/2.7"5Megapixel progressive CMOS				Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution		2592 (H) ×1944 (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 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 Dist	ance	40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/O	off Control	Auto/Manual					Smart Illumination	Yes
Illuminator Numl	Illuminator Number		2 (IR LED)				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 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				Alarm		
Mount Type Focal Length		φ14 2.7 mm–13.5 mm					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; scene changing; intensity change; tripwire; intrusion; SMD
Max. Aperture		F1.5						
Field of View	Field of View		Horizontal: 99°–26° Vertical: 72° –20°				Network	
			Diagonal: 133° –33°				Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed					SDK and API	Yes
Close Focus Dista		0.8 m (2.6 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
DORI Distance	Lens W	Detect 64.0 m (210.0 ft) 222.0 m	Observe 25.6 m (84.0 ft) 88.8 m	12.8 m (42.0 ft)	6.4 m (21.0 ft)		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
	T	(728.3 ft)	(291.3 ft)	(145.7 ft)	(72.8 ft)		Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Professional,						Scene Self-adaptation (SSA)		
Perimeter Protec	ction	Tripwire; intrusion (Recognition of human and vehicle)						Yes
Intelligent Search	Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				User/Host	20 (Total bandwidth: 64 M)
Video		videos					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Browser	IE: IE8, IE9, IE11 Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS, DSS, DMSS
		Main stream (2592 × 1944@1–20 fps)					Mobile Phone	IOS; Android
Video Frame Rate		(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)					Certification	
Stream Capability		3 streams						CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Resolution		5M (2592 × 1944); 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				Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
		(352 × 288/352 × 240)				Power		

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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		

492 g (1.1 lb)

663 g (1.5 lb)

Dimensions

Net Weight

Gross Weight

Φ122 mm × 88.9 mm (Φ4.8" × 3.5")

Ordering Information					
Туре	Part Number	Description			
5MP	DH-IPC-HDBW3541RP-ZS	5MP IR Vari-focal Dome WizSense Network Camera,PAL			
Camera	DH-IPC-HDBW3541RN-ZS	5MP IR Vari-focal Dome WizSense Network Camera,NTSC			
	PFA137	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories	PFB220C	Celling Mount			
(optional)	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

PFB203W Wall Mount

PFA152-E 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



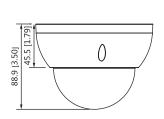
PFM900-E Integrated Mount tester



PFM114 TLC SD card

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

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Dimensions (mm[inch])

