

DH-IPC-HDBW3541R-ZAS

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.

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, by working with AI NVR.

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, by working with AI NVR.

- •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, by working with AI NVR)
- 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.

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.



Bit Rate Control

Technical Sp	ecificati	on				Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
Camera						Day/Night	Auto(ICR)/Color/B/W	
Image Sensor		1/2.7"5Megapixel progressive CMOS				BLC	Yes	
Max. Resolution		2592 (H) ×1944 (V)				HLC	Yes	
ROM		128 MB				WDR	120 dB	
RAM		512 MB					Auto/natural/street lamp/outdoor/manual/regional	
Scanning System	1	Progressive				White Balance	custom	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				Gain Control	Auto/Manual	
Min. Illumination		0.005 Lux@F1.5				Noise Reduction	3D DNR	
S/N Ratio		> 56 dB				Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Dist	ance	> 56 dB 40 m (131.23 ft)				Region of Interest(RoI)	Yes (4 areas)	
						Smart Illumination	Yes	
Illuminator On/Off Control Illuminator Number		Auto/Manua 2 (IR LED)	l			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Pan/Tilt/Rotatio	n Range		°: Tilt: 0°–75°: F	Rotation: 0°–35	55°	Mirror	Yes	
Lens		7 4111 0 333	, , , , ,	iotationi o		Privacy Masking	4 areas	
Lens Type		Motorized vari-focal				Audio		
Mount Type		ф14				Audio Compression	G.711a; G.711Mu; G726; AAC	
Focal Length		2.7 mm-13.5 mm				Alarm		
Max. Aperture		F1.5				, iidiiii	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; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD	
Field of View		Horizontal: 99°–26° Vertical: 72° –20° Diagonal: 133° –33°				Alarm Event		
Iris Type		Fixed				Natronale	,	
Close Focus Dist	ance	0.8 m (2.6 ft)				Network		
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)	
DORI Distance	W	64.0 m (210.0 ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)	SDK and API	Yes	
	Т	222.0 m (728.3 ft)	88.8 m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 ft)	Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP	
Professional	, Intellige	ent				1.00		
Perimeter Protec	ction	Tripwire; intrusion (Recognition of human and vehicle)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec			
Intelligent Searc	h	-		IVR to perform raction and me		Scene Self-adaptation	Yes	
-		videos				User/Host	20 (Total bandwidth: 64 M)	
Video						Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)			supported	Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Smart Codec		Smart H.265+/ Smart H.264+				Management Software	Smart PSS, DSS, DMSS	
Video Frame Rate		Main stream:2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream:704 × 576 (1 fps-25 fps)				Mobile Phone	IOS; Android	
Stream Capability		704 × 480 (1 fps-30 fps) 2 streams				Certification		
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 (352 × 288/352 × 240)			20p (1280	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Bit Rate Control		CBR/VBR					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 5MP IR Vari-focal Dome WizSense DH-IPC-HDBW3541RP-ZAS Network Camera, PAL 5MP Camera 5MP IR Vari-focal Dome WizSense DH-IPC-HDBW3541RN-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:







PFA152-E

PFA137 Junction Box

PFB203W

Wall Mount





PFA200W Rain Shade



PFA106 Mount Adapter



Celling Mount





In-Celling Mount

PFB200C





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

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Dimensions (mm[inch])



