

DH-IPC-HDBW3541R-ZS

5MP 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.

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, gathering detection(optional)) are largely reduced.

- \cdot 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 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), gathering detection(optional)
- 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



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.

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.





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Technical Specification

Camera						
Image Sensor		1/2.7"5Megapixel progressive CMOS				
Max. Resolution		2592 (H) ×1944 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				
S/N Ratio		> 56 dB				
Illumination Distance		40 m (131.23 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		2 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–75°;Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 99°–26° Vertical: 72°–20° Diagonal: 133°–33°				
Iris Type		Fixed				
Close Focus Distance		0.8 m (2.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
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)	
	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)	
Professional, Intellige		nt				
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle); gathering detection(optional)				
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video						
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				

Smart H.265+/ Smart H.264+

3 streams

Main stream (2592 × 1944@1–20 fps)

third stream (1280 × 720@1-25/30 fps)

(2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)

5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280

x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 240)

Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 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 DNR		
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 1920 × 1080 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Alarm			
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; gathering detection(optional); SMD		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
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		
	excoution) crusteu appliaae		
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec		
Interoperability Scene Self-adaptation (SSA)	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;		
Scene Self-adaptation	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec		
Scene Self-adaptation (SSA)	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes		
Scene Self-adaptation (SSA) User/Host	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes 20 (Total bandwidth: 64 M)		
Scene Self-adaptation (SSA) User/Host Storage	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes 20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome		
Scene Self-adaptation (SSA) User/Host Storage Browser	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes 20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox		
Scene Self-adaptation (SSA) User/Host Storage Browser Management Software	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes 20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Smart PSS, DSS, DMSS		
Scene Self-adaptation (SSA) User/Host Storage Browser Management Software Mobile Phone	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec Yes 20 (Total bandwidth: 64 M) FTP; SFTP; Micro SD Card (support max. 256 G); NAS IE: IE8, IE9, IE11 Chrome Firefox Smart PSS, DSS, DMSS		

Smart Codec

Video Frame Rate

Stream Capability

Resolution

IDM_



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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			
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

Туре	Part Number	Description	
5MP Camera	DH-IPC-HDBW3541RP-ZS	5MP IR Vari-focal Dome WizSense Network Camera,PAL	
	DH-IPC-HDBW3541RN-ZS	5MP IR Vari-focal Dome WizSense Network Camera,NTSC	
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	

Accessories

Optional:



Junction Box



PFB203W

Wall Mount



PFA152-E Pole Mount



PFA200W Rain Shade

PFB200C

In-Celling Mount

tester





PFB220C Celling Mount



PFM321D

DC12V1A Power

Adapter

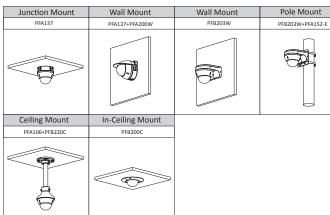


LR1002-1ET/1EC Single-port long reach ethernet over coax extender

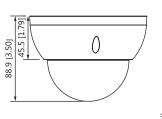


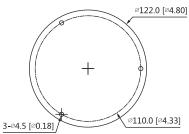
PFM900-E Integrated Mount

PFM114 TLC SD card



Dimensions (mm[inch])





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