

DH-IPC-HDW5541T-ZE

5MP IR Vari-focal Eyeball WizMind Network Camera



👽 🚺 Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

- * The parameters and datasheets below can only be applied to 5541-Z-S3 series.
- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5MP (2960×1668) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, IVS, face detection, smart object detection, and people counting, etc.
- Supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 protection.
- SMD 3.0.



People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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, 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.

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.

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Technical Specification								Tripwire people counting, generating and exporting
Camera							People Counting	report (day/week/month/year); people counting in area and queue management; generating and exporting
Image Sensor		1/2.7" CMOS					report (day/week/month); 4 rules can be set for tripwire people counting in area and queue management.	
Max. Resolution		2960 (H) × 1668 (V)					Heat Map	Yes
ROM		4 GB						Motor vehicle, non-motor vehicle, face, human body
RAM		1 GB					Video Metadata	detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0009 Lux@F1.5(Color, 30IRE) 0.0005 Lux@F1.5(B/W, 30IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB						Work together with Smart NVR to perform refine
Illumination Distance		40 m (131.23 ft) (IR)					Smart Search	intelligent search, event extraction and merging to event videos
Illuminator On/Off Control		Auto;Manual					Video	
Illuminator Number		2 (IR LED)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°					Smart Codec	by the sub stream) Smart H.265+; Smart H.264+
		Rotation: 0°–360°					Al Coding	AI H.265; AI H.264
Lens							Video Frame Rate	Main stream: 2960 × 1668@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Lens Type Lens Mount		Motorized vari-focal φ14						
Focal Length		2.7 mm–13.5 mm						
Max. Aperture		F1.5					Stream Capability	4 streams
Field of View		H: 114°–32°; V: 58°–17°; D: 138°–36°					Resolution	5M (2960 × 1668); 5M (2880 × 1620); 4M (2688 × 1520) 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×
Iris Control Close Focus Distance		Auto 0.8 m (2.62 ft)						
	Lens	Detect	Observe	Recognize	Identify		Bit Rate Control	480); CIF (352 × 288/352 × 240) CBR/VBR
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (20.99 ft)		Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–11776 kbps
Distance	т	210.0 m	84.0 m	42.0 m	21.0 m		Day/Night	Auto(ICR)/Color/B/W
Intelligence		(688.98 ft)	(275.59 ft)	(137.80 ft)	(68.90 ft)		BLC	Yes
Intelligence		Intrusion, tripwire, fast moving (the three functions					HLC	Yes
IVS (Perimet	er Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people					WDR	120 dB
		gathering, and parking detection					Scene Self-adaptation (SSA)	Yes
Smart Object Detection		Smart abandoned object; smart missing object Less false alarm, longer detection distance					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
AI SSA		Yes					Gain Control	Auto
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6					Noise Reduction	3D NR
							Motion Detection	OFF/ON (4 areas, rectangular)
		attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.					Region of Interest (Rol)	Yes (4 areas)
							Image Stabilization	Electronic Image Stabilization (EIS)
							Defog	Yes

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Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)				
Mirror	Yes				
Privacy Masking	8 areas				
Audio					
Built-in MIC	Yes				
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723				
Alarm					
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection				
Network					
Network Port	RJ-45 (10/100 Enhancement 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; SAMBA; PPPoE; SNMP; P2P				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI				
User/Host	20 (Total bandwidth: 80 M)				
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS				
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox:Firefox 88 and later				
Management Software	SmartPSS Lite; DSS; DMSS				
Mobile Client	iOS; Android				
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification				
Certification					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14				
Power					
Power Supply	12 VDC/PoE (802.3af)/ePoE				
Power Consumption	Basic: 3.7 W (12 VDC); 4.8 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 7 W (12 VDC); 8.5 W (PoE)				
Environment					
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)				
Operating Humidity	≤95%				

Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	10%–95% (RH), non-condensing			
Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	Φ122.0 mm × 108.3 mm (4.8" × Φ4.26")			
Net Weight	0.70 kg (1.54 lb)			
Gross Weight	0.96 kg (2.12 lb)			

Ordering Information							
Туре	Model	Description					
5MP	DH-IPC-HDW5541T-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera					
Camera	IPC-HDW5541T-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera					
	PFB203W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
	PFA106	Mount Adapter					
Accessories	PFB220C	Ceiling Mount Bracket					
(Optional)	PFA137	Junction Box					
	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional:



Wall Mount

Bracket

PFB220C

Ceiling Mount Bracket

PFM900-E

Integrated Mount Tester



PFA152-E Pole Mount Bracket

PFA137 Junction Box





MicroSD Memory Card

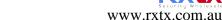
PFA106 Mount Adapter

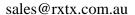
PFM321D

12 VDC 1 A Power Adapter

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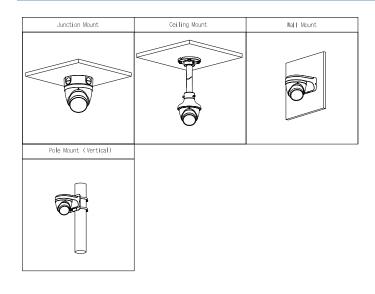
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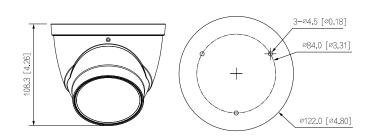


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Dimensions (mm[inch])



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