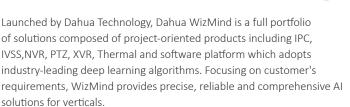




DH-IPC-HDW5442T-ZE

4MP IR Vari-focal Eyeball WizMind Network Camera





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 5442-Z-S3 series.
- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4MP (2688×1520) @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.

Technical Specification

	•				
Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		4 GB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0007 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		40 m (131.23 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (IR LED)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		φ14			
Focal Length		2.7 mm-12 mm			
Max. Aperture		F1.8			
Field of View		H: 115°–47°; V: 62°–27°; D: 137°–54°			
Iris Control		Auto			
Close Focus I	Distance	1.5 m (4.92 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	57.5 m (188.65 ft)	23.0 m (75.46 ft)	11.5 m (37.73 ft)	5.8 m (19.03 ft)
	т	130.8 m (429.13 ft)	52.3 m (171.59 ft)	26.2 m (85.96 ft)	13.1 m (42.98 ft)
Intelligen	ce				
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			
Smart Object	t Detection	Smart abandoned object; smart missing object			
SMD 3.0		Less false alarm, longer detection distance			
AI SSA		Yes			
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 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			

face angle filter; optimization time setting

People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.		
Heat Map	Yes		
Video Metadata	Motor vehicle, non-motor vehicle, face, human body 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.		
Smart 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 the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	$\label{eq:main_stream: 2688 \times 1520 (1 fps-25/30 fps) / 1920 \times 1080 (1 fps-50/60 fps) \\ Sub stream: D1@(1-25/30 fps) \\ Third stream: 1080p@(1-25/30 fps) \\ Fourth stream: 720p@(1-25/30 fps) \\ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. \\ \end{tabular}$		
Stream Capability	4 streams		
Resolution	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 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–11008 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	140 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Image Stabilization	Electronic Image Stabilization (EIS)		
Smart Illumination	Yes		

Wiz Mind S | DH-IPC-HDW5442T-ZE

Defog	Yes			
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: 3.5 W (12 VDC); 4.5 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 6.7 W (12 VDC); 8.2 W (PoE)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F); -30 °C to +55 °C (-22 °F to +131 °F)			
Operating Humidity	≤95%			

-40 °C to +60 °C (-40 °F to +140 °F)

Storage Temperature

Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.80")		
Net Weight	0.70 kg (1.54 lb)		
Gross Weight	0.96 kg (2.12 lb)		

Ordering Information					
Туре	Model	Description			
4MP Camera	DH-IPC-HDW5442T-ZE	4MP IR Vari-focal Eyeball WizMind Network Camera			
	IPC-HDW5442T-ZE	4MP IR Vari-focal Eyeball WizMind Network Camera			
Accessories (Optional)	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFA106	Mount Adapter			
	PFB220C	Ceiling Mount Bracket			
	PFA137	Junction Box			
	PFM321D	12 VDC 1 A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Wiz Mind S | DH-IPC-HDW5442T-ZE

Accessories

Optional:



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket

PFA137

Junction Box

20



PFB220C Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



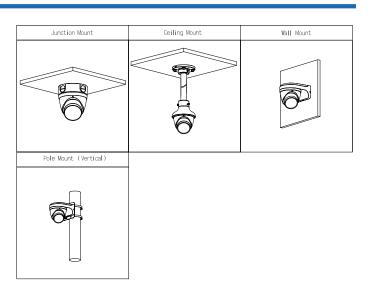
TF-P100 MicroSD Memory Card



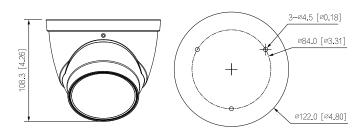
PFA106

Mount Adapter

PFM321D 12 VDC 1 A Power Adapter



Dimensions (mm[inch])



Rev 002.000 © 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.