



DH-IPC-HF5231EP-E

2MP Box 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 Al-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.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

* The parameters and datasheets below can only be applied to 5241-Z-S3 series.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2MP (1920×1080) @25/30 fps.
- 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, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 2 in, 2 out; audio: 2 in, 1 out; 485; BNC; supports max. 512 GB Micro SD card, built-in MIC.
- · Supports P-iris, the camera can control the iris more precisely for better image effect.
- 24 VAC/12 VDC/PoE power supply; ePoE.
- 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 (Wide Voltage)

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Commercial Commercia	Technical Specification		Al Coding	AI H.265; AI H.264
Max. Repolution				
Mark Mesolution 128 (19 km 1900 (19) Mesolution Meson Memolution Mesolution Meso	Image Sensor	1/2.8" CMOS	Video Frame Rate	Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each
Saming System Progressive Searning System Progressive	Max. Resolution	1920 (H) × 1080 (V)		
Standing Synthem Progressive P	ROM	4 GB		to the total encoding capacity.
Seaming System Progression P	RAM	1 GB	Stream Capability	4 streams
Min. Illumination	Scanning System	Progressive	Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Min. Illumination	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	Di. D	
Lens Mount C/CS Lens Mount C/CS Intelligence IVS (Perimeter Protection) Intrusion, trigwire, fast moving (the three functions support the disprisence and accurate detection or support disprisence and parting detection or support detection distance All SSA Yes Face Detection Face Detection Face Detection Face place (and prison or support disprison) and political detection or support disprison or su	Min. Illumination	0.0006 lux@F1.2 (Color, 30 IRE)		
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Signart Object Detection of whice and murans, lobering detection, people gathering, and parking detection of some soft of the property of the designation of the property of t	intelligence		WDR	120 dB
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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. People Counting Privacy Masking Privacy Masking Privacy Masking Privacy Masking Perivacy Masking Perivacy Masking Perivacy Masking Perivacy Masking Perivacy Masking Privacy Masking Perivacy Masking Perivacy Masking Privacy Masking Perivacy Masking Privacy Masking Perivacy Masking Perivacy Masking Privacy Masking Perivacy Masking Privacy Masking Privacy Masking Perivacy Masking Perivacy Masking Perivacy Masking Privacy Masking Privacy Masking Perivacy Masking Privacy Masking Privacy Masking Perivacy Masking Privacy Masking Privacy Masking Perivacy Masking Privacy Masking Perivacy Masking Privacy Masking Perivacy Masking Privacy Masking Perivacy		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);	Region of Interest (RoI)	Yes (4 areas)
Sangabhd, quality priority and optimization snapshot); face angle filter; optimization time setting. Defog Yes	Face Detection		Image Stabilization	Electronic Image Stabilization (EIS)
People Counting Fripwire 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. Mirror Yes Mirror Yes Audio Built-in MIC Yes Audio Compression Video Metadata Video Metadata Video Metadata Video Metadata Work repicle attributes: yencled 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, topyfonttom 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 Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) Frivacy Masking Mirror Yes Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; PCM; G.726; G.723 Alarm Alarm Alarm No SD card; SD card full, SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intriusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people number error detection; queue people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection Network Network Network Network Port SDK and API Yes			Defog	Yes
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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 Smart Sound Detection Yes Alarm Alarm Event Ala			Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Video Metadata 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. Mork together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Smart Sound Detection Video Video Compression Calling. 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; severnal alarm; 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 Video Network Network Port RJ-45 (10/100 Enhancement Base-T) SDK and API Yes			Alarm	
Smart Search intelligent search, event extraction and merging to event videos Smart Sound Detection Yes Network Video Video Compression Network Port Network Port RJ-45 (10/100 Enhancement Base-T) Yes SDK and API Yes			Alarm Event	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; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue
Video Network Port RJ-45 (10/100 Enhancement Base-T) Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) SDK and API Yes	Smart Search	intelligent search, event extraction and merging to event	ϵ	
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) SDK and API Yes	Smart Sound Detection	Yes	Network	
Video Compression by the sub stream)	Video		Network Port	RJ-45 (10/100 Enhancement Base-T)
Smart Codec Smart H.265+; Smart H.264+	Video Compression		SDK and API	Yes
	Smart Codec	Smart H.265+; Smart H.264+		



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	
Port		
RS-485	1 (baud rate range:1200 bps–115200 bps)	
Audio Input	2 channels (3.5mm JACK port)	
Audio Output	1 channel (3.5mm JACK port)	
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC	
Alarm Output	2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC	
Analog Output	1 channel (CVBS output: BNC)	
Power		
Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE	
Power Consumption	Basic: 4.8 W (12 VDC); 5.0 W (24 VAC); 5.6 W (PoE) Max. (H.265+ WDR+ Intelligence on): 8.8 W (12 VDC); 10.5 W (24 VAC); 11.1 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	
Structure		
Casing Material	Metal	
Product Dimensions	161.6 mm × 86.8 mm × 74.0 mm (6.36" × 3.42" × 2.91") (L × W × H)	
Net Weight	0.76 kg (1.68 lb)	
Gross Weight	0.98 kg (2.16 lb)	

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HF5231EP-E	2MP Box WizMind Network Camera		
	IPC-HF5231EP-E	2MP Box WizMind Network Camera		
	PFB121W	Wall Mount Bracket		
	PFB110W	Ceiling Mount Bracket		
	DH-PFL1040-A12PE	10-40mm Motorized Vari-Focal Lens		
Accessories (Optional)	PFH610V Series	Housings		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



PFB121W Wall Mount Bracket



PFB110W Ceiling Mount Bracket



DH-PFL1040-A12PE 10-40mm Motorized Vari-Focal Lens



PFH610V Series Housings



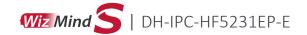
PFM321D 12 VDC 1 A Power Adapter

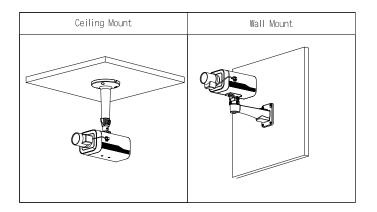


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

