



DH-IPC-HFW5842E-ZHE

8MP IR Vari-focal Bullet WizMind Network Camera







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 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.

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.

- * The parameters and datasheets below can only be applied to 5842-Z-S3 series.
- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 8MP (3840×2160) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 60 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, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection, heater.
- SMD 3.0.













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.

Smart Sound Detection

With deep learning algorithm, Dahua Smart Sound Detection technology can detect and identifies the sound of scream and glass breaking, etc.

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, 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 work normally 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Carmera Image Sensor 1/1.8" CMOS
Image Sensor
Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot optimization; optimization; optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle attributes; vehicle solor, vehicle attributes vehicle solor, vehicle attributes; vehicle solor, vehicle attributes vehicle solor, vehicle attributes; vehicle solor, vehicle attributes vehicle solor, vehicle attributes vehicle solor, vehicle attributes vehicle solor, vehicle attributes. vehicle solor, vehicle attributes vehicle solor, vehicle attributes vehicle vehicle solor, vehicle attributes vehicle vehicle vehicle solor, vehicle attributes. vehicle solor, vehicle attribu
RAM 2 GB
RAM 2 GB Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Min. Illumination 0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (ROW, 30 IRE) 0.0004 lu
Scanning System Progressive Video Metadata Caling Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, age, expressions, glasses, face mask and beard.
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Min. Illumination 0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (RoW, 30 IRE) 0.0004 lux@F1.8 (Ro
Min. Illumination 0.0000 lau@F1.8 (Color, 30 IRE) 0.0000 lau@F1.8 (RoM, 30 IRE) 1.5 (Illuminator on) 1.5 (Roman Search) 1.5 (Roman Searc
Illumination Distance 60 m (196.85 ft) (IR) Smart Search intelligent search, event extraction and merging to event videos
Illuminator Distance
Note Pan: 0"-360"
Angle Adjustment Pan: 0°-360° Tilt: 0'-90° Rotation: 0°-360°
Angle Adjustment Tilt: 0*-90* Rotation: 0*-360* Smart Codec Smart H.265+; Smart H.264+ Al Coding Al H.265; Al H.264 Main stream: 3840 × 2160@(1-25/30 fps) Sub stream: 1080p@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps) Fourth stream: 720p@(1-10 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. Field of View H: 113*-47*; V: 60*-26*; D: 133*-53* Stream Capability 4 streams Iris Control Auto Close Focus Distance 1.5 m (4.92 ft) Detect Detect Observe Recognize Identify Resolution Bit Rate Control CREN/VBR
Lens Smart H.265+; Smart H.264+
Lens Type
Main stream: 3840 × 2160@(1-25/30 fps)
Focal Length 2.7 mm-12 mm Video Frame Rate Fourth stream: 720p@(1-10 fps)
Max. Aperture F1.8 stream; for multiple streams, the values will be subjected to the total encoding capacity. Field of View H: 113°-47°; V: 60°-26°; D: 133°-53° Stream Capability 4 streams Iris Control Auto 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 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) DORI W 83.4 m (16.7 m (17.70 ft)) 8.3 m (17.73 ft) 8.3 m (17.73 ft) 8.3 m (17.73 ft) Rit Rate Control CBB/VBR
Stream Capability 4 streams 5 m (3072 × 2048); 5 M (3072 × 1728); 5 M (2592 × 1944); 4 M (2688 × 1520); 3.6 M (2560 × 1440); 3 M (2048 × 1536); 3 M (2304 × 1296); 1080p (1920 × 1080); 1.3 M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) 5 m (4.70 × 10 streams 4 streams 5 m (2592 × 1944); 4 m (2688 × 1520); 3.6 M (2560 × 1944); 4 m (2688 × 1520);
Close Focus Distance 1.5 m (4.92 ft) Resolution Resolution Resolution SM (2592 × 1944); 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) DORI W 8.3 m (773 C2 ft) (100 Fg ft) (14 70 ft) (773 2 ft) Rif Rate Control CBR/VBR
Lens Detect Observe Recognize Identify (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) DORI W (33.4 m
DORI W 83.4 m 33.4 m 16.7 m 8.3 m 8.3 m 8.3 m (100.5 ft) (100.5 ft) (17.7 o.5 ft) (17.
190 0 75 0 27 0 10 10 0 1
T 189.6 m 75.8 m 37.9 m 19.0 m Video Bit Rate H.264: 32 kbps—16384 kbps; H.265: 12 kbps—13568 kbps (622.05 ft) (248.69 ft) (124.34 ft)
Intelligence Day/Night Auto(ICR)/Color/B/W
EPTZ Yes BLC Yes
Intrusion, tripwire, fast moving (the three functions IVS (Perimeter Protection) HLC Yes Ves
of vehicle and human); loitering detection, people gathering, and parking detection WDR 120 dB
Smart Object Detection Smart abandoned object; smart missing object Scene Self-adaptation (SSA) Yes
SMD 3.0 Less false alarm, longer detection distance White Balance Auto; natural; street lamp; outdoor; manual; regional custom
Al SSA Yes Gain Control Auto
Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; Noise Reduction 3D NR
face exposure; face attributes extraction including 6 Face Detection attributes and 8 expressions; face snapshot set as face, Motion Detection OFF/ON (4 areas, rectangular)
one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); Region of Interest (RoI) Yes (4 areas)
face angle filter; optimization time setting Image Stabilization Electronic Image Stabilization (EIS)



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Smart Illumination	Yes
Defog	Yes
	0°/90°/180°/270° (Support 90°/270° with 4M (2688 ×
Image Rotation	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; external 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	
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
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC
Alarm Output	1 channel out: wet contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)/ePoE
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Power Consumption	Basic: 4.0 W (12 VDC); 5.3 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.2 W (12 VDC); 12.8 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °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; IK10
Structure	
Casing Material	Metal + plastic
Product Dimensions	273.2 mm \times 95.0 mm \times 95.0 mm (10.76" \times 3.74" \times 3.74") (L \times W \times H)
Net Weight	1.12 kg (2.47 lb)
Gross Weight	1.66 kg (3.66 lb)

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-HFW5842E-ZHE	8MP IR Vari-focal Bullet WizMind Network Camera	
	IPC-HFW5842E-ZHE	8MP IR Vari-focal Bullet WizMind Network Camera	
Accessories (Optional)	PFA121	Water-proof Junction Box	
	PFA156	Pole mount Bracket	
	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:







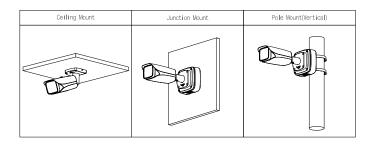
PFA121 Water-proof Junction Box PFA156 Pole mount Bracket PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

