

# DH-IPC-HFW5842E-ASE

8MP IR Fixed-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 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.

## **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 5842-ASE-S3 series.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840×2160) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 50 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: 1 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 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.

ROM 4 6B  RAM 2 GB  Progressive Progre	Technical Specification						AISSA	Yes	
Max. Resolution  Max.	Camera								Face detection; track; snapshot; snapshot optimization;
Max	Image Sensor		1/1.8" CMOS						face exposure; face attributes extraction including 6
RAM	Max. Resolution		3840 (H) × 2160 (V)					Face Detection	one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.
Searching   System	ROM		4 GB						
Seaming system	RAM		2 GB					People Counting	report (day/week/month/year); people counting in area
Reat Map   Vas	Scanning System		Progressive						report (day/week/month); 4 rules can be set for tripwire
Min-	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Heat Map	
S/N Aato	Min. Illumination		0.0004 lux@F1.6 (B/W, 30 IRE)						Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
	S/N Ratio		>56 dB						vehicle logo and other attributes : seatbelt, smoking,
Illuminator On/Off Control   Auto-Manual	Illumination Distance		50 m (164.04 ft) (IR)					Video Metadata	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
Munimator Number   1(R.LED)   Face attributes: gender, age, expressions, glasses, face many data and beard.   Face attributes: gender, age, expressions, glasses, face many data and beard.   Smart Search   Smart Search   Work together with Smart NVN to perform refine intelligent: earth, event extraction and merging to event vice.   Smart Sound Detection   Yes	Illuminator On/Off Control		Auto;Manual						
Angle Adjustment   Tilt: 0—30"   Smart Search   micligenest search, event extraction and merging to event videous   Smart Search   micligent search, event extraction and merging to event videous   Smart Sound Detection   Yes	Illuminator Number		1 (IR LED)						
Lens Type	Angle Adjustment		Tilt: 0°-90°					Smart Search	intelligent search, event extraction and merging to event
Lens   Mount   M12	Lens							Smart Sound Detection	Yes
Focal Length	Lens Type		Fixed-focal					Video	
Smart Codec   Smart H.265+; Smart H.264+	Lens Mount		M12					Video Compression	
Al Coding	Focal Length		2.8 mm; 3.6 mm; 6 mm					Smart Codec	
Field of View	Max. Aperture		F1.6					Al Coding	AI H.265; AI H.264
Fixed	Field of View		3.6 mm: H: 87°; V: 49°; D: 99°					Video Frame Rate	Sub stream: D1@(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
Stream Capability   A streams	Iris Control								
Lens	Close Focus Distance		3.6 mm: 2.3 m (7.55 ft)					Stream Capability	4 streams
DORI Distance  3.6 mm  38.0 m  39.0 m  (321.52 ft)  (128.61 ft)  6 mm  140.0 m  (459.32 ft)  (183.73 ft)  19.6 m  (91.86 ft)								Resolution	1440); 3M (2048 × 1535); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720);
3.6 mm (321.52 ft) (128.61 ft) (64.30 ft) (32.15 ft)  6 mm 140.0 m (459.32 ft) (183.73 ft) (91.86 ft) (45.93 ft)  Intelligence  EPTZ Yes  Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection of vehicle and human); loitering detection (SSA)  Smart Object Detection Smart abandoned object; smart missing object  Bit Rate Control  Video Bit Rate  H.264: 32 kbps-16384 kbps H.265: 12 kbps-13568 kbps  Day/Night Auto(ICR)/Color/B/W  BLC Yes  HLC Yes  WDR 120dB  Scene Self-adaptation (SSA)  Yes  Smart Object Detection Smart abandoned object; smart missing object  White Balance Auto; natural; street lamp; outdoor; manual; regional custom		2.8 mm				, ,			
Intelligence  EPTZ  Yes  BLC  Yes  H.265: 12 kbps—13568 kbps  H.265: 12 kbps—13568 kbps  Auto(ICR)/Color/B/W  BLC  Yes  HLC  Yes  WDR  120dB  Scene Self-adaptation (SSA)  Smart Object Detection  Smart abandoned object; smart missing object  White Balance  Video Bit Rate  H.265: 12 kbps—13568 kbps  H.265: 12 kbps—13568 kbps  H.265: 12 kbps—13568 kbps  H.265: 12 kbps—13568 kbps  Auto(ICR)/Color/B/W  WDR  120dB  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom	Distance	3.6 mm						Bit Rate Control	CBR/VBR
EPTZ  Yes  BLC  Yes  HLC  Yes  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 Detection  Smart abandoned object; smart missing object  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom		6 mm						Video Bit Rate	· ·
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 Detection  Smart abandoned object; smart missing object  WDR  120dB  Scene Self-adaptation (SSA)  Yes  Smart Object Detection  Smart abandoned object; smart missing object  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom	Intelligence							Day/Night	Auto(ICR)/Color/B/W
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 Detection  Smart abandoned object; smart missing object  WDR  120dB  Scene Self-adaptation (SSA)  Yes  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom	EPTZ		Yes					BLC	Yes
IVS (Perimeter Protection) support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection  Smart Object Detection  Smart abandoned object; smart missing object  WDR  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom	IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					HLC	Yes
gathering, and parking detection  Scene Self-adaptation (SSA)  Yes  Smart Object Detection  Smart abandoned object; smart missing object  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom								WDR	120dB
SMD 2.0. Lose falce alarm langer detection distance									Yes
SMD 3.0 Less false alarm, longer detection distance Gain Control Auto	Smart Object Detection		Smart abandoned object; smart missing object					White Balance	
	SMD 3.0		Less false alarm, longer detection distance					Gain Control	Auto

VVIZ WIIIIG	DTT II C TII W30 12E 7.3E
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
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; external alarm; face detection; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception
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; RTMI SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPP0E; SNMP; P2F
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; Generatio 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	1 channel 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	
Power Consumption	Basic: 4 W (12 VDC); 5.8 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 6.2 W (12 VDC); 8.3 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	
Structure		
Casing Material	Metal	
Product Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.78" × 2.61") (L × W × H)	
Net Weight	590 g (1.30 lb)	

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HFW5842E-ASE	8MP IR Fixed-focal Bullet WizMind Network Camera					
Camera	IPC-HFW5842E-ASE	8MP IR Fixed-focal Bullet WizMind Network Camera					
	PFA130-E	Water-proof Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

780 g (1.72 lb)

Gross Weight

# **Accessories**

# Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



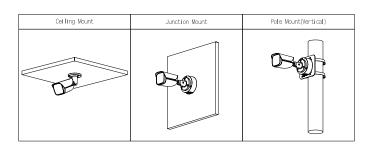
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

