

DH-IPC-HFW5842T-SE

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.

- * 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 80 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 and IK10 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, 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Wiz Mind S | DH-IPC-HFW5842T-SE

Technical Specification								
Camera Image Sensor	r	1/1.8" CMOS						Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attribute (gender, age, glasses, expressions, mask, and beard) and
Max. Resolution		3840 (H) × 2160 (V)				Face Detection	Face Detection	8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face beautifying; face snapshot
ROM		4 GB					set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting	
RAM		2 GB						
Scanning System		Progressive				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 tripwir people counting in area and queue management.	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Heat Map	Yes
S/N Ratio		>56 dB						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.
Illumination Distance		Up to 80 m (262.47 ft) (IR)						
Illuminator On/Off Control		Auto;Manual				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 mask and beard.	
Illuminator Number		4 (IR LED) Pan: 0°–360°						
Angle Adjustment		Tilt: 0°-90° Rotation: 0°-360°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to ever
Lens								videos
Lens Type		Fixed-focal					Video	
Lens Mount		M12					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Smart Codec	Smart H.265+; Smart H.264+
Max. Aperture		F1.6					AI Coding	AI H.265; AI H.264
Field of View		2.8 mm: H: 110°; V: 57°; D: 134° 3.6 mm: H: 87°; V: 49°; D: 99° 6 mm: H: 60°; V: 35°; D: 68°					Video Frame Rate	Main stream: $3840 \times 2160@(1-25/30 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ Third stream: $1080p@(1-25/30 \text{ fps})$ Fourth stream: $720p@(1-10 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Iris Control		Fixed						
Close Focus Distance		2.8 mm: 1.9 m (6.23 ft) 3.6 mm: 2.3 m (7.55 ft)					Stream Capability	4 streams
DORI Distance	Lens	6 mm: 4.0 m Detect	Observe	Recognize	Identify		Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 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)
	2.8 mm	89.2 m (292.65 ft)	35.7 m (117.13 ft)	17.8 m (58.40 ft)	8.9 m (29.20 ft)			
	3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 m (32.15 ft)		Bit Rate Control	CBR/VBR
	6 mm	140.0 m (459.32 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	14.0 m (45.93 ft)		Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps
Intelligence		((((1010010)		Day/Night	Auto(ICR)/Color/B/W
EPTZ		Yes					BLC	Yes

EPTZ Yes Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection IVS (Perimeter Protection) of vehicle and human); loitering detection, people gathering, and parking detection Smart Object Detection Smart abandoned object; smart missing object SMD 3.0 Less false alarm, longer detection distance

Face Detection	exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face beautifying; 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	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	Main stream: 3840 × 2160@(1–25/30 fps) 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 to the total encoding capacity.			
Stream Capability	4 streams			
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 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–13568 kbps			
Day/Night	Auto(ICR)/Color/B/W			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
Scene Self-adaptation (SSA)	Yes			
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom			
Gain Control	Auto			

Wiz Mind S | DH-IPC-HFW5842T-SE

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 Audio	8 areas					
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; 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; 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	Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade					
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: 4.1 W (12 VDC); 5.2 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 8.3 W (12 VDC); 9.8 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 244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") Product Dimensions $(\mathsf{L}\times\mathsf{W}\times\mathsf{H})$ Net Weight 0.82 kg (1.81 lb) Gross Weight 1.08 kg (2.38 lb)

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HFW5842T-ASE	8MP IR Fixed-focal Bullet WizMind Network Camera				
Camera	IPC-HFW5842T-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				

Wiz Mind S | DH-IPC-HFW5842T-SE

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount Bracket

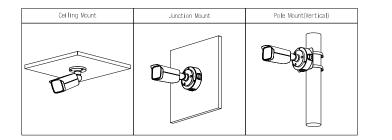


TF-P100 MicroSD Memory Card

A2 ٠



PFM321D 12 VDC 1 A Power Adapter



Dimensions (mm[inch])

