



# IPC-HFW5842T-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 Al 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 ISP 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-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

# **Self-Learning**

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

#### **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.

#### **AcuPick**

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

# \* 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
- · 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, 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. 1 TB 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification								Intrusion, tripwire, fast moving (the three functons support the classification and accurate detection of	
Camera							IVS (Perimeter Protection)	vehicle, animal and human); loitering detecton, people gathering, parking detecton. Supports long- distance	
Image Sensor		1/1.8" CMOS						mode. Supports self-learning, it filters out false alarms.	
Max. Resolution		3840 (H) × 2160 (V)					Smart Object Detection Smart abandoned object; smart missing object		
ROM		4 GB					SMD	SMD 3.0	
RAM		2 GB						Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate targets.  Yes	
Scanning System		Progressive					AcuPick		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					AI SSA		
Min. Illumination		0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					71.55.1	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.	
S/N Ratio		>56 dB					Face Detection		
Illumination Distance		Up to 80 m (262.47 ft) (IR)							
Illuminator On/Off Control		Auto;Manual						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.	
Illuminator Number		4 (IR LED) Pan: 0°-360°					People Counting		
Angle Adjustment		Fail: 0 –360 Tilt: 0°–90° Rotation: 0°–360°					Heat Map	Yes	
Lens								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,	
Lens Type		Fixed-focal							
Lens Mount		M12					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	
Focal Length		2.8 mm; 3.6 mm; 6 mm							
Max. Aperture		F1.6						color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.	
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°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Iris Control		Fixed					Smart Sound Detection Yes		
Close Focus Distance		2.8 mm: 1.9 m (6.23 ft) 3.6 mm: 2.3 m (7.55 ft)					Video		
		6 mm: 4.0 m (13.12 ft)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Smart Codec	Smart H.265+; Smart H.264+	
	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)		AI Coding	AI H.265; AI H.264	
	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)			Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps)	
	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 Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected.	
	(EN-62676-4) f	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.						to the total encoding capacity.	
	numbers in thi						Stream Capability	4 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728);	
Intelligen	commissioning	function distances, refer to installation and manual/project design tool.					Resolution	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 ×	
EPTZ		Yes					Bit Rate Control	288/352 × 240) CBR/VBR	
								L 264: 22 khor 16294 khor	

Video Bit Rate

H.264: 32 kbps-16384 kbps

H.265: 12 kbps-13568 kbps

Mobile Client

iOS;Android

Day/Night	Auto(ICR)/Color/B/W			Video encryption;Firmware encryption;Configuration			
BLC	Yes	Cyber Security		encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted			
HLC	Yes			execution;Trusted upgrade			
WDR	DR 120 dB		Certification				
Scene Self-adaptation (SSA)	Yes	Certifications	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		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	Certifications					
Gain Control	Auto	Port					
Noise Reduction	3D NR	Audio Input		1 channel (RCA port)			
Motion Detection	OFF/ON (4 areas, rectangular)	Audio Output		1 channel (RCA port)			
Region of Interest (RoI)	Yes (4 areas)	Alarm Input	Alarm Input		1 channel in: wet contact, 5mA 3V–5V DC		
Smart Illumination	Yes	Alarm Output		1 channel out: wet contact, 300mA 12V DC			
<b>Defog</b> Yes		Power					
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M (2688 × 1520) resolution and lower)	Power Supply		12 VDC/PoE (802.3af)/ePoE			
Mirror	Yes	Dual Power Backup		When the power adapter and PoE provide power at the same time, disconnect one of them. The device will			
Privacy Masking	8 areas			continue to work, but will not restart.  Basic: 4.1 W (12 VDC); 5.2 W (PoE)			
LDC	Yes (only 2.8mm/3.6mm supports)	Power Consu	Power Consumption		Max. (H.265+ WDR+ Intelligence on+IR on): 8.3 W (12 VDC); 9.8 W (PoE)		
Audio	Environment						
Built-in MIC	Yes	Operating Temperature		-40 °C to +60 °C (-40 °F to +140 °F)			
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	Operating Humidity		≤95%			
Alarm			Storage Temperature		-40 °C to +60 °C (-40 °F to +140 °F)		
	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast		Storage Humidity		10%–95% (RH), non-condensing		
	moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene	Protection		IP67; IK10			
Alarm Event	changing; audio detection; voltage detection; external alarm; face detection; SMD; people counting in area;	Structure					
	stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception	Casing Material		Metal			
Network	aidin, security exception	Product Dimensions		244.1 mm $\times$ 79.0 mm $\times$ 75.9 mm (9.61" $\times$ 3.11" $\times$ 2.99") (L $\times$ W $\times$ H)			
Network Port	RJ-45 (10/100 Enhancement Base-T)	Net Weight	Net Weight		0.82 kg (1.81 lb)		
SDK and API	Yes	Gross Weight	Gross Weight		1.08 kg (2.38 lb)		
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; Auto Register		Ordering Information				
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI	Туре	Type Model		Description		
User/Host	20 (Total bandwidth: 80 M)		DH-IPC-HFW5842T-ASE		8MP IR Fixed-focal Bullet WizMind Network Camera		
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS		IPC-HFW5842T-ASE		8MP IR Fixed-focal Bullet WizMind Network Camera		
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later		PFA130-E		Water-proof Junction Box		
Management Software	SmartPSS Lite; DSS; DMSS		PFA152-E		Pole Mount Bracket		
<u> </u>		Accessories	DEM 221 D		12 VDC 1 A Dower Adenter		

Accessories

(Optional)

PFM321D

PFM900-E

TF-P100

12 VDC 1 A Power Adapter

Integrated Mount Tester
MicroSD Memory Card