



# DH-IPC-HFW5442T-SE

4MP 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-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 5442-SE-S3 series.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688×1520) @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**

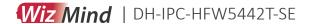
Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious 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.

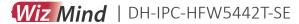
IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical Specification							Face detection; track; snapshot; snapshot optimization;
Camera						Fore Detection	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);
Image Sensor		1/1.8" CMOS				Face Detection	
Max. Resolution		2688 (H) × 1520 (V)					face angle filter; optimization time setting.
ROM		4 GB					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,
RAM		1 GB				People Counting	
Scanning System		Progressive				Heat Map	people counting in area and queue management.  Yes
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	000 s			"Motor vehicle, non-motor vehicle, face, human body
Min. Illumination			=1.6 (Color, 30 =1.6 (B/W, 30 II ator on)				detection; track; snapshot; snapshot optimization; optimal face snapshot upload.  Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling.
S/N Ratio		>56 dB				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.
Illumination	Distance	Up to 80 m (2	262.47 ft) (IR)				
Illuminator (	On/Off Control	Auto;Manual					
Illuminator Number		4 (IR LED) Pan: 0°-360°				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–	360°			Video	
Lens						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Type		Fixed-focal				Smart Codec	Smart H.265+; Smart H.264+
Lens Mount		M12				Al Coding	AI H.265; AI H.264
Focal Length		2.8 mm; 3.6 mm; 6 mm					Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 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.
Max. Aperture Field of View		F1.6  2.8 mm: H: 112°; V: 58°; D: 139°  3.6 mm: H: 88°; V: 50°; D: 102°  6 mm: H: 61°; V: 35°; D: 69°				Video Frame Rate	
Iris Control		Fixed				Stream Capability	4 streams
Close Focus Distance		2.8 mm: 1.3 r 3.6 mm: 1.5 r 6 mm: 3.0 m	m (4.92 ft)			Resolution	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)
	Lens	Detect	Observe	Recognize	Identify	Bit Rate Control	CBR/VBR
	2.8 mm	61.5 m (201.77 ft)	24.6 m (80.71 ft)	12.3 m (40.35 ft)	6.2 m (20.34 ft)	Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–11008 kbps
DORI Distance	3.6 mm	67.6 m	27.0 m	13.5 m	6.8 m	Day/Night	Auto(ICR)/Color/B/W
	5.6 111111	(221.78 ft)	(88.58 ft)	(44.29 ft)	(22.31 ft)	BLC	Yes
	6 mm	96.6 m (316.93 ft)	38.6 m (126.64 ft)	19.3 m (63.32 ft)	9.7 m (31.82 ft)	HLC	Yes
Intelligence						WDR	140 dB
IVS (Perimeter Protection)				ing (the three f		Scene Self-adaptation (SSA)	Yes
		of vehicle and		ring detection,		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Smart Object Detection		Smart ahande	oned object: sr	nart missing ob	piect	Gain Control	Auto
SMD 3.0				ection distance		Noise Reduction	3D NR
AI SSA		Yes	, ronger dete	alstance		Motion Detection	OFF/ON (4 areas, rectangular)
AI 33A		163				Region of Interest (RoI)	Yes (4 areas)





Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 $\times$ 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; 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
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)

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
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)
Net Weight	0.82 kg (1.81 lb)
Gross Weight	1.08 kg (2.38 lb)

Ordering Information						
Туре	Model	Description				
4MP	DH-IPC-HFW5442T-SE	4MP IR Fixed-focal Bullet WizMind Network Camera				
Camera	IPC-HFW5442T-SE	4MP 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 | DH-IPC-HFW5442T-SE

# **Accessories**

# Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



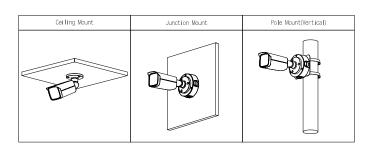
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

