



# DH-IPC-HDW5842TM-ASE

8MP IR Fixed-focal Eyeball 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.

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



Technica	l Specificati	on						Intrusion, tripwire, fast moving (the three functions
Camera							IVS (Perimeter Protection)	support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection
Image Sensor		1/1.8" CMOS						
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
Scanning System		Progressive					AcuPick	devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					AISSA	Yes
Min. Illumination		0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Face Detection	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
S/N Ratio		>56 dB						
Illumination	Distance	Up to 50 m (164.04 ft) (IR)						snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.
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 I	Number	2 (IR LED)					People Counting	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Heat Map	Yes
Lens		Notation: 0	300					Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.  Motor vehicle attributes: vehicle type, vehicle color,
Lens Type		Fixed-focal						
Lens Mount		M16					Video Metadata	vehicle logo and other attributes : seatbelt, smoking, calling.
Focal Length	า	2.8mm; 3.6mm; 6mm					video includata	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
Max. Apertu	ıre	F1.6						
		2.8 mm: H: 111°; V: 59°; D: 131°						mask and beard.
Field of View		3.6 mm: H: 87°; V: 47°; D: 102° 6 mm: H: 55°; V: 30°; D: 64°					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
		2.8 mm: 1.8 m					Video	
Close Focus Distance		3.6 mm: 2.6 m 6 mm: 4.4 m					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
	Lens	Detect	Observe	Recognize	Identify		Smart Codec	Smart H.265+; Smart H.264+
	2.8 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Al Coding	AI H.265; AI H.264
	3.6 mm	106.0 m (347.77 ft)	42.4 m (131.11 ft)	21.2 m (69.55 ft)	10.6 m (34.78 ft)		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
DORI Distance	6 mm	164.8 m (540.68 ft)	65.9 m (216.21 ft)	33.0 m (108.27 ft)	16.5 m (54.13 ft)			
			ognize, Identify		•			to the total encoding capacity.
	video to distin	(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.					Stream Capability	4 streams
For intelligent fu		unction distances, refer to installation and manual/project design tool.					Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2560 × 1440; 2048 × 1536; 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)
EPTZ		Yes					Bit Rate Control	CBR/VBR
							Video Bit Rate	H.264: 32 kbps–16384 kbps
							D. All I.	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
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 $\times$ 1520) resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes (only 2.8mm/3.6mm supports)
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
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
CDV LABI	

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	

iOS;Android

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

Mobile Client

Cyber Security

### Certification

Net Weight

**Gross Weight** 

	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				
	Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.				
	Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE); Max. (H.265+ WDR+ Intelligence on+IR on): 6.8 W (12 VDC); 8.8 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				
	Structure					
	Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal				
	Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")				

Ordering Information					
Туре	Model	Description			
8MP	DH-IPC-HDW5842TM-ASE	8MP IR Fixed-focal Eyeball WizMind Network Camera			
Camera	IPC-HDW5842TM-ASE	8MP IR Fixed-focal Eyeball WizMind Network Camera			
	PFA130-E	Water-proof Junction Box			
	PFB205W-E	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories	PFA109	Mount adapter			
(Optional)	PFB220C	Ceiling Mount Bracket			
	PFM321D	12 VDC 1 A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

500 g (1.10 lb)

770 g (1.70 lb)

## **Accessories**

## Optional:



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



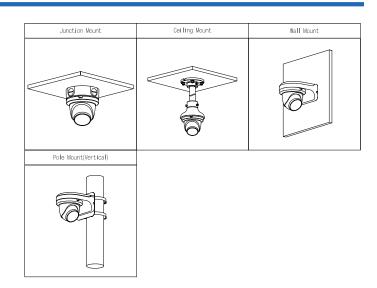
PFA109

Mount adapter

PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



## Dimensions (mm[inch])

