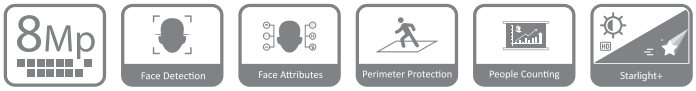
DH-IPC-HDW5842TM-SE-S2

8 MP IR Fixed-focal Eyeball WizMind Network Camera

- 8-MP 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8 MP (3840 × 2160) @30 fps
- Max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Supports max. 256 G Micro SD card, Built-in Mic
- 12 VDC/PoE power supply
- ePoE, IP67 protection
- SMD 3.0



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67(Supported by some select models).

Functions

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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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.

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 yearly/monthly/daily reports to meet your requirements.

ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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 works normal 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.

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.004 lux@F1.4 (Color, 30IRE) 0.0004 lux@F1.4 (B/W, 30IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	2.8 mm: 30 m (98.4 ft) 3.6 mm: 30 m (98.4 ft) 6 mm: 50 m (164.0 ft)
Illuminator On/Off Control	Auto; manual
Illuminator Number	2 (IR)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Lens Mount	M16
Focal Length	2.8 mm; 3.6 mm; 6 mm
Max. Aperture	F1.4
Field of View	2.8 mm: Horizontal 111° ; Vertical 59° ; Diagonal 131° 3.6 mm: Horizontal 87°; Vertical 47° ; Diagonal 102° 6 mm: Horizontal 55° ; Vertical 30° ; Diagonal 64°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.8 m (5.9 ft) 3.6 mm: 2.5 m (8.2 ft) 6 mm: 4.3 m (14.1 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	85.4 m (280.2 ft)	34.2 m (112.2 ft)	17.1 m (56.1 ft)	8.5 m (27.9 ft)
	3.6 mm	106 m (347.8 ft)	42.4 m (139.1 ft)	21.2 m (69.6 ft)	10.6 m (34.8 ft)
	6 mm	164.8 m (540.7 ft)	65.9 m (216.2 ft)	33 m (108.3 ft)	16.5 m (54.1 ft)

Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
Face Detection	Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Audio

Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+
Video Frame Rate	Main stream: 3840× 2160 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–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.
Stream Capability	3 streams
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 M (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: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
Image Rotation	0°/90°/180°/270°(Support 90°/270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	8 areas

Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management

Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Browser	IE: IE8 and later Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Power

Power Supply	12 VDC (±30%)/PoE (802.3af)/ePoE
Power Consumption	Basic power consumption: 3.7 W (12 VDC); 4.6 W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED): 6.7 W (12 VDC); 7.8W (PoE)

Environment

Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Protection	IP67

Structure

Casing	Metal
Product Dimensions	104.4 mm × Φ121.9 mm (4.11" × Φ4.80")
Net Weight	500 g (1.1 lb)
Gross Weight	680 g (1.5 lb)

Ordering Information

Type	Model	Description
8 MP Camera	DH-IPC-HDW5842TMP-SE-0280B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera,PAL
	DH-IPC-HDW5842TMP-SE-0360B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera, PAL
	DH-IPC-HDW5842TMP-SE-0600B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera, PAL
	IPC-HDW5842TMP-SE-0280B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera, PAL
	IPC-HDW5842TMP-SE-0360B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera, PAL
	IPC-HDW5842TMP-SE-0600B-S2	8 MP IR Fixed-focal Eyeball WizMind Network Camera, PAL
Accessories (Optional)	PFA130-E	Junction Box Bracket
	PFB203W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester

Accessories

Optional

PFA130-E
Junction Box Bracket

PFB203W
Wall Mount Bracket

PFA152-E
Pole Mount Bracket

PFM321D
12 VDC 1 A Power Adapter

LR1002-1ET/1EC
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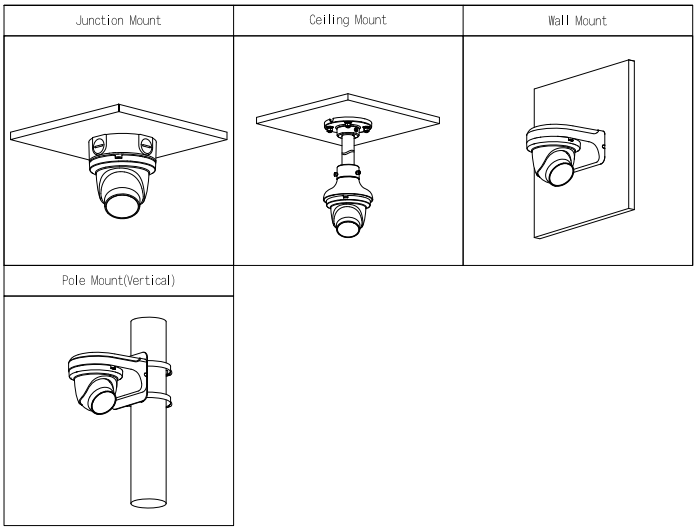
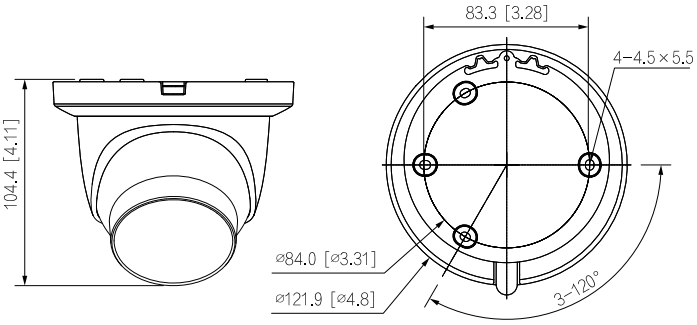


Dimensions (mm[inch])



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