

# DH-IPC-HDW5842T-ZE-S2

8 MP IR Vari-focal Eyeball WizMind Network Camera





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.

- 8MP 1/1.8" CMOS image sensor, low illuminance and high definition image.
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- Max. IR distance: 40 m.
- ROI, SVC, SMART H.264 +/H.265+, AI 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.
- 12V DC/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 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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#### Support the counting of enter number, leave number **Technical Specification** and pass number, and displaying and outputting yearly/ monthly/daily reports. Camera Support the counting of number in area, and 4 rules **People Counting** configuration. Count number of people or stay time and 1/1.8" CMOS Image Sensor link alarm Support queue management, and 4 rules configuration. Max. Resolution 3840 (H) × 2160 (V) Count number of people or stay time and link alarm. Work together with Smart NVR to perform refine ROM 128 MB Intelligent Search intelligent search, event extraction and merging to event videos. RAM 1 GB Video Scanning System Progressive H.265; H.264; H.264H; H.264B; MJPEG (Only supported Auto/Manual 1/3 s-1/100,000 s Video Compression **Electronic Shutter Speed** by the sub stream) 0.004 lux@F1.4 (Color, 30 IRE) Smart Codec Smart H.265+/H.264+ Min. Illumination 0.0004 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) Main stream: 3840× 2160 (1 fps-25/30 fps) Sub stream: D1 (1 fps-25/30 fps) S/N Ratio > 56 dB Third stream: 1080p (1 fps-25/30 fps) Video Frame Rate \*The values above are the max. frame rates of each stream; for Illumination Distance 40 m (131.23 ft) (IR) multiple streams, the values will be subjected to the total encoding capacity. Illuminator On/Off Control Auto; Manual Stream Capability 3 streams Illuminator Number 2 (IR) 3840 x 2160; 2592 x 1944; 2688 × 1520; 2560 × 1440; Pan: 0°-355° 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); Pan/Tilt/Rotation Range Tilt: 0°-80° Resolution 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA Rotation: 0°-355° (640 × 480); CIF (352 × 288/352 × 240) Lens Bit Rate Control CBR/VBR Lens Type Motorized vari-focal H.264: 32 kbps-8192 kbps Video Bit Rate H.265: 32 kbps-8192 kbps Lens Mount φ14 Day/Night Auto (ICR)/Color/B/W 2.7 mm-12.0 mm Focal Length BLC Yes Max. Aperture F1.4 Horizontal: 110.4° (W)-45° (T) HLC Yes Field of View Vertical: 57.8° (W)-25.2° (T) Diagonal: 133.8° (W)-51.8° (T) WDR 120 dB Iris Control Auto Auto; natural; street lamp; outdoor; manual; regional White Balance custom W/T:1.0m (3.3 ft) Close Focus Distance Gain Control Auto; manual Lens Detect Observe Recognize Identify Noise Reduction 3D NR 86 m 34.4 m 17.2 m 8.6 m DORI W (282.2 ft) (112.9 ft) (56.4 ft) (28.2 ft) **Motion Detection** OFF/ON (4 areas, rectangular) Distance 196 m 78.4 m 39.2 m 19.6 m т Region of Interest (Rol) Yes (4 areas) (643.0 ft) (257.2 ft) (128.6 ft) (64.3 ft) Smart Event Image Stabilization Electronic Image Stabilization (EIS) IVS Abandoned object; missing object Defog Yes Heat Map Yes 0°/90°/180°/270°(Support 90°/270° with 4M Image Rotation resolution and lower) Professional, intelligent Mirror Yes Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection IVS (Perimeter Protection) Privacy Masking 8 areas of vehicle and human); loitering detection; people gathering; parking detection Audio

Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face 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 snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.

Face Detection

Built-in MIC

Audio Compression

Yes

PCM; G.711a; G.711Mu; 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; defocus detection; 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	12V DC (±30%)/PoE (802.3af)/ePoE		
Power Consumption	Basic power consumption: 3.4 W (12 VDC); 4.3 W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 6.4 W (12 VDC); 7.3 W (PoE)		
Environment			
Operating Temperature	–30 °C to +60 °C (–22 °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	108.3 mm × Φ122 mm (4.3" × Φ4.8")		
Net Weight	685g (1.5 lb)		
Gross Weight	828 g (1.8 lb)		

Туре	Model	Description
8MP Camera	DH-IPC-HDW5842TP-ZE- 2712-S2	8 MP IR Vari-focal Eyeball WizMind Network Camera, PAL
	IPC-HDW5842TP-ZE-2712-S2	8 MP IR Vari-focal Eyeball WizMind Network Camera, PAL
Accessories (Optional)	PFA130-E	Junction Box Bracket
	PFB203W	Wall Mount Bracket
	PFA106	Mount Adapter
	PFB220C	Celling Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM321D	DC12V1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

#### Accessories

Optional:





PFB203W

Wall Mount Bracket



PFA106 Mount Adapter



PFM321D 12V DC 1 A Power Adapter

PFA130-E Junction Box Bracket

PFB220C

Celling Mount Bracket



PFA152-E Pole Mount Bracket



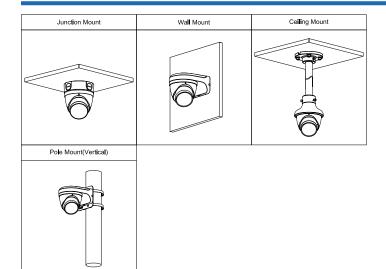
PFM900-E Integrated Mount Tester

MicroSD Memory Card

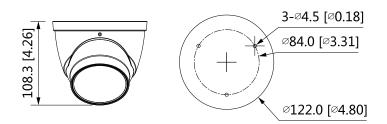


TF-P100

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### Dimensions (mm[inch])



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