



# DH-IPC-HFW5842H-ZHE-S2

8 MP IR Vari-focal Bullet 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.

# **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**

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## **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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- · Max. IR distance: 60 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.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC, power output; supports max. 256 G Micro SD card.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- 24 VAC/12 VDC/PoE power supply.
- ePoE, IP67, IK10 protection.
- SMD 3.0.
- · Anti-corrosion model optional.













#### **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.

#### ePoF

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, 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 works normal 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	on						Support the counting of enter number, leave number
Camera								and pass number, and displaying and outputting yearly/ monthly/daily reports.
Image Sensor		1/1 9"CMOS					People Counting	Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and
Max. Resolution		1/1.8"CMOS 3840 (H) × 2160 (V)						link alarm. Support queue management, and 4 rules configuration.
ROM		128 MB					Count number of people or stay time and link alarm.	
RAM		1 GB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Scanning Sys	stem	Progressive					Video	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					H.265; H.264; H.264H; H.264B; MJPEG (Only supported	
Min. Illumina	Min. Illumination		0.003 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE)				Video Compression Smart Codec	by the sub stream)  Smart H.265+;Smart H.264+
S/N Ratio	S/N Patic		0 lux (Illuminator on) >56 dB				AI Coding	AI H.265; AI H.264
	Distance						_	Main stream: 3840× 2160 (1 fps-25/30 fps)
	Illumination Distance		60 m (196.9 ft)					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
	Illuminator On/Off Control Illuminator Number		Auto;Manual;Zoomprio 4 (IR LED)				Video Frame Rate	
		Pan: 0-360°						to the total encoding capacity.
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Tilt:0-90° Rotation:0-360°				Stream Capability	3 streams
Lens								3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 ×
Lens Type		Motorized vari-focal					Resolution	1080); 1.3 MB (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Mount Type		ф14					Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-12.0 mm					Video Bit Rate	H.264:3 kbps-20480 kbps
Max. Apertu	Max. Aperture		F1.2					H.265:3 kbps-20480 kbps
Field of View		Horizontal: 112.1°–47.5° Vertical: 58.0°–26.6° Diagonal: 137.5°–54.6°					Day/Night BLC	Auto (ICR)/Color/B/W Yes
Iris Control		Auto						
Iris Control  Iris Control Type		P-Iris					HLC	Yes
		W: 1.75 m (5.7 ft)					WDR	120 dB
Close Focus	Distance	T: 5.21 m (17.1 ft)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto; manual
DORI Distance	W	87.6 m (287.4 ft)	35.04 m (114.96 ft)	17.52 m (57.48 ft)	8.76 m (28.74 ft)		Noise Reduction	3D NR
	Т	186.6 m (612.2 ft)	78.64 m (258.0 ft)	37.32 m (122.44 ft)	18.66 m (61.22 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
Smart Eve	ent	(,	(======	(===::::,)	(		Region of Interest (RoI)	Yes (4 areas)
IVS		Abandoned object; missing object					Image Stabilization	Electronic Image Stabilization (EIS)
Heat Map		Yes					Defog	Yes
·	nal, intellige	nt					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower)
			Tripwire; intrusion; fast moving (the three functions				Mirror	Yes
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					Privacy Masking	8 areas
SMD 3.0		Less false alarm, longer detection distance					Audio	
		Face detection; track; snapshot optimization; snapshot;					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Face Detection		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						

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,UL 50E NEMA Type 4X (optional)		
Port			
RS-485	1 (baud rate range:1200 bps–115200 bps)		
Audio Input	1 channel (3.5 mm JACK port)		
Audio Output	1 channel (3.5 mm JACK port)		
Alarm Input	3 channels in: 5 mA 3V–5 VDC		
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC		
Power			
Power Supply	12 VDC (±25%)/24 VAC (±30%)/PoE (802.3at)/ePoE		
Power Consumption	Basic: 5.5W (12 VDC); 6.0 W (24 VAC); 6.2 W (PoE) Max. (H.265 + 3 streams + Intelligence + IR on + heating; 15.9 W (12 VDC); 18.1 W (24 VAC); 18.7 W (PoE) Heating: 3.3 W ( 12 VDC); 4.4 W (24 VAC); 3.9 W (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, IK10		

# Structure

Casing	Metal + plastic
Product Dimensions	340.1 mm $\times$ 138.3 mm $\times$ 134.0 mm (13.39" $\times$ 5.44" $\times$ 5.28") (L $\times$ W $\times$ H)
Net Weight	1.6 kg (3.5 lb)
Gross Weight	2.4 kg (5.3 lb)

Ordering Information				
Туре	Model	Description		
8MP	DH-IPC-HFW5842H-ZHE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera		
Camera	IPC-HFW5842H-ZHE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera		
	PFA154	Pole Mount Bracket		
	PFA155A	Anti-corrosion Pole Mount Bracket		
Accessories (Optional)	PFM320D	12 VDC 2A Power Adapter		
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		

# **Accessories**

# **Optional:**







PFA155A Anti-corrosion Pole Mount Bracket





LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	
	9		

# Dimensions (mm[inch])





