



# DH-IPC-HFW5842E-Z4E-S2

8MP 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. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (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.

- 8 MP 1/1.8" CMOS image sensor, low luminance, and high definition
- · Outputs max. 8MP (3840× 2160) @30 fps
- · Max. IR distance: 120 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: 2 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- · ePoE, IP67, 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 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, 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								Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/
Camera								monthly/daily reports.
Image Sensor		1/1.8"CMOS					People Counting	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.
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM		1 GB					Video	videos.
Scanning System		Progressive					video	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Compression	by the sub stream)
Min. Illumination		0.004 Lux@F1.4 (Color, 30 IRE) 0.0004 Lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Codec	Smart H.265+/H.264+  Main stream: 3840× 2160 (1 fps-25/30 fps)
S/N Ratio		>56 dB					Video Frame Rate	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.
Illumination Distance		120 m(393.7 ft)						
Illuminator C	On/Off Control	Auto; Manual; Zoomprio					Stream Capability	3 streams
Illuminator N	Illuminator Number						. ,	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944;
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Resolution	2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 MB (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens							Bit Rate Control	CBR/VBR
Lens Type		Motorized vari-focal					Video Bit Rate	H.264:3kbps ~ 20480kbps H.265:3kbps ~ 20480kbps
Mount Type		Module					Day/Night	Auto (ICR)/Color/B/W
Focal Length		8 mm-32 mm					BLC	Yes
Max. Apertu	_		t)				HLC	Yes
		Horizontal: 42	°-14 9°				WDR	120 dB
Field of View	Field of View		Vertical: 42.3.3°–8.6° Diagonal: 48.5°–16.9°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control	Iris Control		Auto				Gain Control	Auto; manual
Close Focus Distance		W: 3.0 m (9.84 ft)					Noise Reduction	3D NR
			(4 ft)	Docogniza	Idontifu		Motion Detection	OFF/ON (4 areas, rectangular)
505	Lens	Detect 213.6 m	Observe 85.4 m	Recognize 42.7 m	Identify 21.4 m		Region of Interest (RoI)	Yes (4 areas)
DORI Distance	W	(700.8 ft)	(280.2 ft)	(140.1 ft)	(70.2 ft)		Smart Illumination	Yes
	Т	572.8 m (1879.3 ft)	229.1 m (751.6 ft)	114.6 m (376.0 ft)	70.2 m (188.0 ft)		Defog	Yes
Smart Event							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower)
IVS		Abandoned object; missing object					Mirror	Yes
Heat Map		Yes					Privacy Masking	8 areas
Professional, intelligent					Audio			
		Tripwire; intrusion; fast moving (the three functions					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					Alarm	No CD and CD and full CD and array naturals
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					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		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	2 channels in: 5mA 3V–5V DC		
Alarm Output	1 channels out: 300mA 12V DC		
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC		
Power			
Power Supply	12V DC (±30%)/PoE (802.3af)/ePoE		
Power Consumption	Basic power consumption: 6.4W (12V DC); 6.9W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 7.7W (12V DC); 7.9W (PoE)		
Environment			
Operating Temperature	$-30^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$ )/Less than 95% RH		
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Protection	IP67, IK10		
Structure			
Casing	Metal, plastic		
Product Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74"		
Net Weight	1.11 kg (2.45 lb)		
Gross Weight	1.51 kg (3.33 lb)		

Ordering Information						
Туре	Model	Description				
8MP Camera	DH-IPC-HFW5842EP-ZE- 0832-S2	8MP IR Vari-focal Bullet WizMind Network Camera, PAL				
SIVIP Camera	IPC-HFW5842EP-ZE-0832-S2	8MP IR Vari-focal Bullet WizMind Network Camera, PAL				
	PFA152-E	Pole mount Bracket				
	PFA121	Junction Box				
Accessories	PFM321D	DC12V1A Power Adapter				
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

# Accessories

# Optional:



PFA152-E Pole mount Bracket



PFA121 Junction Box



PFM321D DC12V1A Power Adapter







PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Celling Mount	Junction Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])





