

DH-IPC-HFW5241E-Z5E

2MP 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

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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 120 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.
- Three switchable intelligent resources: IVS, face detection, and people counting.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection; ePoE.
- SMD3.0.













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



Technical	l Specificati	on						Support the counting of enter number, leave number
Camera					and pass number, and displaying and outputting yearly/monthly/daily reports.			
Image Sensor		1/2.8" CMOS					People Counting	Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and
Max. Resolution		1920 (H) × 1080 (V)						link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.
ROM		128 MB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM		512 MB						videos
Scanning System		Progressive					Video	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Min. Illumination		0.0015 lux@F1.3 (Color, 30 IRE) 0.0002 lux@F1.3 (B/W, 30 IRE)					Smart Codec	Smart H.265+; Smart H.264+
C/N Potic		0 lux (Illuminator on)					Al Coding	Al H.265; Al H.264
S/N Ratio Illumination Distance		120 m (393.70 ft) (IR)					Video Frame Rate	Main stream: 1920 × 1080@(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.
Illuminator On/Off Control		Auto						
Illuminator Number		4 (IR LED)					Stream Capability	3 streams
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Resolution	1080p (1920 × 1080); 1.3M (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: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Lens Mount		Module					Day/Night	Auto(ICR)/Color/B/W
Focal Length		7 mm–35 mm					BLC	Yes
Max. Aperture		F1.3 (Constant)					HLC	Yes
Field of View	Field of View		Horizontal: 33°–10° Vertical: 19°–5°				WDR	120 dB
		Diagonal: 38°–11°					Scene Self-adaptation (SSA)	Yes
Iris Control Close Focus	Distance	Auto W-T: 0.3 m-2 m (0.98 ft-6.56 ft)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto; manual
DORI		131.0 m	52.4 m	26.2 m	13.1 m		Noise Reduction	3D NR
Distance	W	(429.79 ft)	(171.91 ft)	(85.96 ft)	(42.98 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
	Т	427.6 m (1,402.89 ft)	171.0 m (561.02 ft)	85.5 m (280.51 ft)	42.7 m (140.09 ft)		Region of Interest (RoI)	Yes (4 areas)
Smart Eve	ent						Image Stabilization	Electronic Image Stabilization (EIS)
IVS		Abandoned object; missing object					Smart Illumination	Yes
Heat Map		Yes					Defog	Yes
Professional, intellige		ent					Image Rotation	0°/90°/180°/270°
		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection					Mirror	Yes
IVS (Perimeter Protection)		of vehicle and human); loitering detection, people gathering, and parking detection					Privacy Masking	8 areas
SMD 3.0		Less false alarm, longer detection distance					Audio	
Face Detection		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					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
		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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; input error; voltage detection face detection; people counting in area; stay detection; people counting; people counting; necessary detection; queue management; intensity change		
Network			
Network Port	RJ-45 (10/100 Enhancement Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
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; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE: IE8 and later Chrome Firefox		
Management Software	Smart PSS, DSS, DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-LVD: EN 62368-1 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: 5 mA 3–5 VDC		
Alarm Output	1 channel out: 300 mA 12 VDC		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Power Consumption	Basic: 2.5 W (12 VDC); 3.2 W (PoE) Max. (max. stream + IR LED + focus): 9.4 W (12 VDC); 10.3 W (PoE)		
Environment			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67; IK10		
Structure			
Casing	Metal + plastic		

Product Dimensions	273.2 mm × 95 mm × 95 mm (10.76" × 3.74" × 3.74") (L \times W × H)
Net Weight	1110 g (2.45 lb)
Gross Weight	1510 g (3.33 lb)

Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-HFW5241EP-Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, PAL			
ZIMP Camera	DH-IPC-HFW5241EN-Z5E	2MP IR Vari-focal Bullet WizMind Network Camera, NTSC			
	PFA152-E	Pole Mount Bracket			
	PFA121	Junction Box			
Accessories (optional)	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100/256G	MicroSD Memory Card			

Accessories

Optional:







PFA121 Junction Box







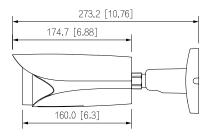
PFM900-E Integrated Mount Tester



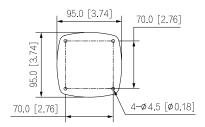
TF-P100/256G MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])







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