



DH-IPC-HFW5241E-Z12E

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
- 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 150 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.
- SMD 3.0.













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						De cale Counting	monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm.	
Image Sensor		1/2.8" CMOS						People Counting
Max. Resolution		1920 (H) × 1080 (V)						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					\ e 1	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		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Codec Al Coding	Smart H.265+; Smart H.264+ AI H.265; AI H.264
S/N Ratio		>56 dB						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.
Illumination Distance		150 m (492.13 ft) (IR)					Video Frame Rate	
Illuminator On/Off Control		Auto						
Illuminator N	umber	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	Focal Length		5 mm-60 mm				BLC	Yes
Max. Aperture		F1.5					HLC	Yes
Field of View	Field of View		Horizontal: 58°–4° Vertical: 34°–2°				WDR	120 dB
Iris Control		Diagonal: 66°–6° Auto					Scene Self-adaptation (SSA)	Yes
Close Focus Distance		W–T: 1 m–1.5 m (3.28 ft–4.92 ft)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto; manual
DORI Distance	W	73.1 m (239.83 ft)	29.2 m (95.80 ft)	14.6 m (47.90 ft)	7.3 m (23.95 ft)		Noise Reduction	3D NR
Distance	Т	882.7 m	353.1 m	176.5 m	88.2 m		Motion Detection	OFF/ON (4 areas, rectangular)
Cmart Fu		(2,896.00 ft)	(1,158.46 ft)	(579.07 ft)	(289.37 ft)		Region of Interest (RoI)	Yes (4 areas)
	Smart Event		hiost, missing	phiost			Image Stabilization	Electronic Image Stabilization (EIS)
IVS			bject; missing o	object			Smart Illumination	Yes
Heat Map		Yes					Defog	Yes
Professional, intellige		Intrusion, tripwire, fast moving (the three functions					Image Rotation	0°/90°/180°/270°
IVS (Perimet	IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people				Mirror	Yes
SMD 3.0		gathering, and parking detection Less false alarm, longer detection distance					Privacy Masking	8 areas
5.410 5.0		Face detection; track; snapshot; snapshot optimization;					Audio	
Face Detection		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,					Audio Compression Alarm	PCM; G.711a; G.711Mu; G.726; G.723
		quality priority and optimization 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; 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 number error 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 (±30%); 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 \times 95 mm \times 95 mm (10.76" \times 3.74" \times 3.74") (L \times W \times 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-Z12E	2MP IR Vari-focal Bullet WizMind Network Camera, PAL				
ZIVIP Calliela	DH-IPC-HFW5241EN-Z12E	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:



PFA152-E Pole Mount Bracket



Junction Box



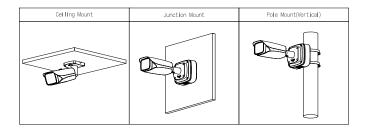
Power Adapter



PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card



Dimensions (mm[inch])

