



DH-IPC-HFW5241E-ZE

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.
- · Built-in IR LED, and the max. illumination distance is 60 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
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection; ePoE.
- SMD 3.0.













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

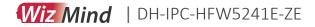
Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical Specification							Tripwire people counting and people counting in area; generating and exporting report (day/month/year);
Camera						People Counting	queue management; 4 rules can be set for tripwire, people counting in area and queue management
Image Sensor		1/2.8" CMOS				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Max. Resolution		1920 (H) × 1080 (V)				Video	videos
ROM		128 MB					H.265; H.264; H.264H; H.264B; MJPEG (Only supported
RAM		512 MB				Video Compression	by the sub stream)
Scanning System		Progressive				Smart Codec	Smart H.265+; Smart H.264+
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s		AI Coding	AI H.265; AI H.264
Min. Illumination			1.5 (Color, 30 IF 1.5 (B/W, 30 IF ator on)			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
S/N Ratio		>56 dB					stream; for multiple streams, the values will be subjected to the total encoding capacity.
Illumination [Distance	60 m (196.85	ft) (IR)			Stream Capability	3 streams
Illuminator O	Illuminator On/Off Control						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator N	Illuminator Number					Resolution	
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90°				Bit Rate Control	CBR/VBR
			360°			Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Lens						Day/Night	Auto(ICR)/Color/B/W
Lens Type		Motorized va φ14	ri-focal			BLC	Yes
Lens Mount	Lens Mount					HLC	Yes
Focal Length	1	2.7 mm-13.5	mm			WDR	120 dB
Max. Aperture		F1.5				Scene Self-adaptation (SSA)	Yes
Field of View	Field of View		09°–30° 17° L°–35°			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Auto				Gain Control	Auto;Manual
Close Focus	Distance	0.8 m (2.62 ft)				Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify	Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	Region of Interest (RoI)	Yes (4 areas)
Distance	Т	146.2 m	58.4 m	29.2 m	14.6 m	Image Stabilization	Electronic Image Stabilization (EIS)
Constant For		(479.66 ft)	(191.60 ft)	(85.80 ft)	(47.90 ft)	Smart Illumination	Yes
Smart Eve	ent					Defog	Yes
IVS			bject; missing	object		Image Rotation	0°/90°/180°/270°
Heat Map		Yes				Mirror	Yes
Professional, intellige						Privacy Masking	8 areas
IVS (Perimet	IVS (Perimeter Protection)		owire, fast mov lassification an d human); loite	d accurate det ring detection,	ection	Audio	
SMD 2 O			d parking deter			Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
31010 3.0	SMD 3.0					Alarm	
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 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
		niter; optimization time setting					management; intensity change



Wiz Mind | DH-IPC-HFW5241E-ZE

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 log IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade		
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM 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; Mileston		
User/Host	20 (Total bandwidth: 88 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 × 95 mm × 95 mm (10.76" × 3.74" × 3.74") (I × W × H)		
Net Weight	1110 g (2.45 lb)		
Gross Weight	1510 g (3.33 lb)		
J			

Ordering Information						
Туре	Model	Description				
2MD Comore	DH-IPC-HFW5241EP-ZE	2MP IR Vari-focal Bullet WizMind Network Camera, PAL				
2MP Camera	DH-IPC-HFW5241EN-ZE	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				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				

Accessories

Optional:



PFA152-E Pole Mount Bracket



PFA121 Junction Box



PFM321D 12 VDC 1A Power Adapter



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

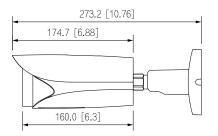


PFM900-E Integrated Mount Tester

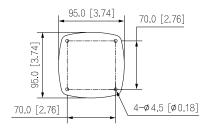
Ceiling Mount	Junction Mount	Pole Mount(Vertical)



Dimensions (mm[inch])







10MJ