



DH-IPC-HDBW5449R1-ZE-LED

4MP Full-color Vari-focal Warm LED Dome 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 dustproof 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.

- · 4MP 1/1.8" CMOS image sensor, low illuminance, high image definition.
- · Outputs max. 4MP (2688 × 1520) @30 fps.
- · Built-in warm illuminator, and the max. illumination distance is 40 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: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker.
- · 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.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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)

door environment with instable 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 out-

Technical Specification								Support the counting of enter number, leave number and pass number, and displaying and	
Camera								outputting yearly/ monthly/weekly/daily reports Support the counting of number in area, and 4 rules	
Image Sensor		1/1.8" CMO	S			People	Counting	configuration Count number of people or stay time and link alarm Support queue management, and 4	
Max. Resolution		2688 (H) × 1520 (V)						rules configuration. Count number of people or stay time and link alarm	
ROM		128 M				Intellig	ent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to	
RAM		512 M				intelligent search		event videos.	
Scanning System		Progressive				Video	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		0.0005Lux@F1.0				Smart (Codec	Smart H.265+/Smart H.264+	
S/N Ratio		>56 dB						Main stream: 2688 × 1520 (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;	
Illumination Distance		40m(131.2 ft)				Video F	Video Frame Rate		
Illuminator On/Off Control		Auto/Manua	il					for multiple streams, the values will be subjected to the total encoding capacity.	
Illuminator Nu	mber	3(Warm ligh	t)			Stream	Capability	3 streams	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°-				Resolut	tion	4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Lens									
Lens Type		Motorized v	ari-focal			Bit Rate	e Control	CBR/VBR	
Mount Type		ф14				Video E	Bit Rate	H.264: 32 kbps-8192 kbps	
Focal Length		2.7 mm-12 r	mm			Day/Ni	ght	H.265: 12 kbps–8192 kbps Color/B/W	
Max. Aperture		F1.0	F1.0				b'''	Yes	
Field of View		Vertical: 59°	Horizontal: 115°–48° Vertical: 59°–27°					Yes	
Iris Tyna		Diagonal: 142°–55° Auto				HLC WDR		140 dB	
Iris Type Close Focus Distance		1.75m(5.74 ft)					Self-adaptation	Yes	
Close Focus Dis	Lens	Detect	Observe	Recognize	Identify		•	Auto/natural/street lamp/outdoor/manual/regional	
DORI		60.4 m	24.1 m	12 m	6 m		Balance	custom	
Distance	W	(198.2 ft)	(79.1 ft)	(39.4 ft)	(19.7 ft)	Gain Co		Auto/Manual	
	Т	128.6 m (421.9 ft)	51.4 m (168.6 ft)	25.7 m (84.3 ft)	12.8 m (42.0 ft)	Noise F	Reduction	3D NR	
Smart even	t					Motion	Detection	OFF/ON (4 areas, rectangular)	
IVS		Abandoned	object; missin	g object		Region	of Interest (RoI)	Yes (4 areas)	
Heat Map		Yes				Defog		Yes	
Professiona	ıl, intelligent					Image I	Rotation	0°/90°/180°/270°	
IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions				Mirror		Yes	
		support the	classification a	and accurate d tering detectio	letection	Privacy	Masking	4 areas	
		gathering; p	arking detecti	on		Audio)		
		Face detection; track; optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting				Built-in	MIC	Yes	
Face Detection						Audio (Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723	

Alarm				
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; 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	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 Safari: Safari 12 and later			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	IOS; Android			
Certification				
Certification				
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			
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Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Certifications Port	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			
Certifications Port Audio Input	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 1 channel (RCA port)			
Certifications Port Audio Input Audio Output	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 1 channel (RCA port)			
Port Audio Input Audio Output Alarm Input	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 1 channel (RCA port) 1 channel in: 5mA 3V–5V DC			
Certifications Port Audio Input Audio Output Alarm Input Alarm Output	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 1 channel (RCA port) 1 channel in: 5mA 3V–5V DC			
Certifications Port Audio Input Audio Output Alarm Input Alarm Output Power	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 1 channel (RCA port) 1 channel (RCA port) 1 channel in: 5mA 3V–5V DC 1 channel out: 300mA 12V DC			
Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply	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 1 channel (RCA port) 1 channel in: 5mA 3V–5V DC 1 channel out: 300mA 12V DC 12V DC (±30%)/PoE (802.3af)/ePoE Basic power consumption: 2.3W (12V DC); 2.9W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + LED on): 11.2W (12V DC);			
Certifications Port Audio Input Audio Output Alarm Input Alarm Output Power Power Supply Power Consumption	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 1 channel (RCA port) 1 channel in: 5mA 3V–5V DC 1 channel out: 300mA 12V DC 12V DC (±30%)/PoE (802.3af)/ePoE Basic power consumption: 2.3W (12V DC); 2.9W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + LED on): 11.2W (12V DC);			

Protection Grade	IP67; IK10		
Structure			
Casing	Metal		
Dimensions	105 mm × Φ126 mm (4.1" × Φ5.0")		
Net Weight	716.4 g (1.6 lb)		
Gross Weight	929.7 g (2.0 lb)		

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC- HDBW5449R1P- ZE-LED	4MP Full-color Vari-focal Warm LED Dome WizMind Network Camera, PAL				
	IPC-HDBW5449R1P- ZE-LED	4MP Full-color Vari-focal Warm LED Dome WizMind Network Camera, PAL				
	PFA137	Junction Box				
	PFA200W	Rain Shade				
	PFB203W	Wall Mount				
	PFA152-E	Pole Mount				
Accessories	PFA109	Mount Adapter				
(optional)	PFB220C	Celling Mount				
	PFM321D	12V DC/1A Power Adapter				
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

Accessories

Optional:



PFA137 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



Mount Adapter

PFA109



PFB220C Celling Mount



PFM321D DC12V1A Power Adapter



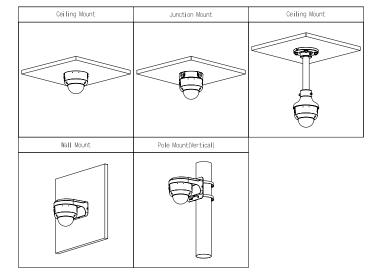
LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card



Dimensions (mm/inch)

