



# 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						People Counting		Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/ monthly/weekly/daily reports 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
Camera								
Image Sensor		1/1.8" CMOS						
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 M					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
RAM		512 M					\/;daa	event videos.
Scanning System		Progressive					Video	H.265; H.264; H.264H; H.264B; MJPEG (only
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Video Compression	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)	
Illumination Distance		40m(131.2 ft)					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.
Illuminator On/Off Control		Auto; Manual; Zoomprio						
Illuminator Number			3 (Warm light)				Stream Capability	3 streams
Pan/Tilt/Rotation Range Lens		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					Resolution	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 Type		Motorized v	Motorized vari-focal				Dir. D. J. G. J. J.	CDD A IDD
Mount Type		ф16	ф16				Bit Rate Control	CBR/VBR H.264: 3 kbps–20480 kbps
Focal Length		2.7 mm-12 mm					Video Bit Rate	H.265: 3 kbps–20480 kbps
Max. Aperture		F1.0	F1.0				Day/Night	Color/B/W
			Horizontal: 115°–48°				BLC	Yes
Field of View			Vertical: 59°–27° Diagonal: 142°–55°				HLC	Yes
Iris Type		Auto					WDR	140 dB
Close Focus Distance		1.75 m (5.74 ft)					Scene Self-adaptation	Yes
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
DORI Distance	W	60.4 m (198.2 ft)	24.1 m (79.1 ft)	12 m (39.4 ft)	6 m (19.7 ft)		Gain Control	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 Reduction	3D NR
Smart event		(421.511) (106.011) (64.511) (42.011)					Motion Detection	OFF/ON (4 areas, rectangular)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Heat Map		Yes					Defog	Yes
Professional, intelligent							Image Rotation	0°/90°/180°/270°
IVS (Perimeter Protection)							Mirror	Yes
		support the	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection				Privacy Masking	8 areas
		of vehicle and human); loitering detection; people gathering; parking detection					Audio	
		Face detection; track; optimization; snapshot; face					Built-in MIC	Yes
Face Detection		enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
		priority; face	priority; face angle 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; 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				
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	1 channel in: 5mA 3V–5V DC				
Alarm Output	1 channel out: 300mA 12V DC				
Power					
Power Supply	12V DC (±30%)/PoE (802.3af)/ePoE				
Power Consumption	Basic: 2.3 W (12 VDC); 3.3 W (PoE) Max. (H.265 + 3 streams + intelligence + LED): 7.4 W (12 VDC); 9.0 W (PoE)				

	Environment				
	Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH			
	Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
	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					

# Dimensions (mm[inch])



