

DH-IPC-HDBW5449R-ASE-LED

4MP Full-color Fixed-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 full color solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including video metadata, face detection, perimeter protection and people counting, etc. which greatly improve the accuracy of video analysis. The series camera supports dust-proof 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.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.

*The parameters and datasheets below can only be applied to 5449-ASE-S2 series.

- \cdot 4-MP 1/1.8" CMOS image sensor, low illuminance, high image definition.
- · Outputs max. 4 MP (2688 × 1520) @30 fps.
- · Built-in warm light and the max. illumination distance is 30 m.
- · ROI, SVC, SMART H.264 +/H.265+, AI 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.
- · With deep learning algorithm, it supports: video metadata,IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card, built-in Mic.
- · 12 VDC/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

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.

Full-color

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

Face detection; snapshot; snapshot optimization; **Technical Specification** optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes Camera Face Detection and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality Image Sensor 1/1.8" CMOS priority and optimization snapshot); face angle filter; optimization time setting. 2688 (H) × 1520 (V) Max. Resolution Tripwire people counting and people counting in area; generating and exporting report (day/month/year); 4 ROM 256 MB **People Counting** rules can be set for tripwire, people counting in area and queue management. RAM 1 GB Heat Map Scanning System Progressive Motor vehicle, non-motor vehicle, face, and human body Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** detection; snapshot; snapshot optimization; optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle Min. Illumination 0.0005 lux@F1.0 Video Metadata attributes: extracts 6 attributes for motor vehicle and 6 S/N Ratio > 56 dB attributes for non-motor vehicle Extraction of face and human body attributes: extracts 6 Illumination Distance Up to 30 m (98.43 ft) attributes for face and 8 attributes for human body. Work together with Smart NVR to perform refine Illuminator On/Off Control Auto;Manual Smart Search intelligent search, event extraction and merging to event Illuminator Number 2 (Warm light) Video Pan: 0°-355° Tilt: 0°-80° Angle Adjustment H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression Rotation: 0°-355° by the sub stream) Lens **Smart Codec** Smart H.265+; Smart H.264+ Fixed-focal Lens Type AI H.265: AI H.264 Al Coding Lens Mount M16 Main stream: 2688× 1520@(1 fps-25/30 fps) Sub stream: D1@(1 fps-25/30 fps) Focal Length 2.8 mm; 3.6 mm Third stream: 1080p@(1 fps-25/30 fps) Video Frame Rate *The values above are the max. frame rates of each Max. Aperture F1.0 stream; for multiple streams, the values will be subjected to the total encoding capacity. 2.8 mm: H: 112°; V: 60°; D: 135° Field of View 3.6 mm: H: 95°; V: 51°; D: 116° Stream Capability 3 streams 2688 × 1520; 2560 × 1440; 2048 × 1536; 2304 × 1296; Iris Control 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 Resolution × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF 2.8 mm: 1.6 m (5.25 ft) Close Focus Distance $(352 \times 288/352 \times 240)$ 3.6 mm: 2.6 m (8.53 ft) Bit Rate Control CBR/VBR Lens Detect Observe Recognize Identify H.264: 32 kbps-16384 kbps 58 2 m 23.3 m 11.6 m 5.8 m Video Bit Rate 2.8 mm H.265: 12 kbps-16384 kbps (190.94 ft) (76.44 ft) (38.06 ft) (19.03 ft) 70.3 m 28.1 m 14 1 m 7 0 m Day/Night Color/B/W 3.6 mm (230.64 ft) DORI (92.19 ft) (46.26 ft) (22.97 ft) Distance BI C Yes *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the HLC Yes video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. WDR 140 dB For intelligent function distances, refer to installation and commissioning manual/project design tool. Scene Self-adaptation (SSA) Intelligence Auto; natural; street lamp; outdoor; manual; regional White Balance Intrusion, tripwire, fast moving (the three functions custom support the classification and accurate detection IVS (Perimeter Protection) of vehicle and human); loitering detection, people Auto/Manual Gain Control gathering, and parking detection Noise Reduction **Smart Object Detection** Smart abandoned object; smart missing object **Motion Detection** OFF/ON (4 areas, rectangular) SMD SMD 3.0 Uses deep learning algorithms and works with back-end Region of Interest (RoI) Yes (4 areas) AcuPick devices to accurately match targets, such as people and motor vehicles, and search through live and recorded Defog Yes videos to quickly locate targets. 0°/90°/180°/270° (Support 90°/270° with 4M resolution **Image Rotation** and lower)

Mirror

Yes

Privacy Masking	4 areas		
LDC	Yes		
Audio			
Built-in MIC	Yes		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; scene changing; audio detection; voltage detection; external alarm; face detection; SMD; security exception; people detection; area people counting; stay alarm; people counting; people number exception detection		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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; PPPoE; SNMP; P2P		
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS		
Browser	IE: IE 11 and later Chrome: Chrome 45 and later Firefox: Firefox 46 and later Safari: Safari 12 and later		
Management Software	SmartPSS Lite; DSS; DMSS		
Mobile Client	iOS; Android		
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		
Certification			
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: wet contact, 5mA 3V–5V DC		
Alarm Output	1 channel out: wet contact, 300mA 12V DC		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 2.8 W (12 VDC); 4.4 W (PoE) Max. (H.265+ warm light+ intelligence on + WDR): 7.1 W (12 VDC); 9.2 W (PoE)		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67; IK10	
Storage Humidity	10%–95% (RH), non-condensing	

Structure

Casing Material	Metal
Product Dimensions	Φ122.0 mm × 94 mm (Φ4.80" × 3.70")
Net Weight	524 g (1.16 lb)
Gross Weight	708 g (1.56 lb)

Ordering Information			
Туре	Model	Description	
4MP Camera	DH-IPC-HDBW5449R-ASE-LED	4MP Full-color Fixed-focal Warm LED Dome WizMind Network Camera	
	IPC-HDBW5449R-ASE-LED	4MP Full-color Fixed-focal Warm LED Dome WizMind Network Camera	
Accessories (Optional)	PFA137	Junction Box	
	PFB206W	Wall Mount Bracket	
	PFA156	Pole Mount Bracket(Vertical)	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Dimensions (mm[inch])

Optional:



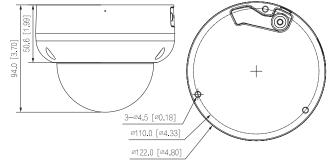
PFA137 Junction Box



PFB206W Wall Mount Bracket



PFA156 Pole Mount(Vertical)





PFA109 Ceiling Mount



PFB220C Ceiling Mount



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

