



# DH-IPC-HFW5449T-ASE-LED

4MP Full-color Fixed-focal Warm LED 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 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.

- · 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 40 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 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, 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.

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.

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.

Technical Specification								Face detection; snapshot; snapshot optimization;
Camera							optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality	
Image Sensor		1/1.8" CMOS						Face Detection
Max. Resolution		1/1.8" CMUS 2688 (H) × 1520 (V)						priority and optimization snapshot); face angle filter; optimization time setting.
ROM		256 MB					People Counting generating and exporting report (day/month/year); 4	rules can be set for tripwire, people counting in area and
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Heat Map	Yes
Min. Illumination		0.0005 lux@F1.0					Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload.  Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6 attributes for non-motor vehicle  Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body.
S/N Ratio		> 56 dB						
Illumination Distance		Up to 40 m (131.23 ft)						
Illumination Distance  Illuminator On/Off Control								
Illuminator On/Off Control		4 (Warm light)						Work together with Smart NVR to perform refine
		4 (warm light) Pan: 0°–360°					Smart Search	intelligent search, event extraction and merging to event videos
Angle Adjust	Angle Adjustment		360°				Video	
Lens							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Type		Fixed-focal					Smart Codec	Smart H.265+; Smart H.264+
Lens Mount		M16					AI Coding	AI H.265; AI H.264
Focal Length		2.8 mm; 3.6 mm; 6 mm					Video Frame Rate	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; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Aperture		2.8 mm: F1.0 3.6 mm: F1.0 6 mm: F1.0 2.8 mm: H: 112°; V: 60°; D: 135°						
Field of View		3.6 mm: H: 95°; V: 51°; D: 116° 6 mm: H: 58°; V: 31°; D: 69°					Stream Capability	3 streams
Iris Control		Fixed					Resolution	2688 × 1520; 2560 × 1440; 2048 × 1536; 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)
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.6 m (8.53 ft) 6 mm: 5.3 m (17.39ft)						
	Lens	Detect	Observe	Recognize	Identify		Bit Rate Control	CBR/VBR
	2.8 mm	58.2 m (190.94 ft)	23.3 m (76.44 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps
	3.6 mm	70.3 m	28.1 m	14.1 m	7.0 m		Day/Night	Color/B/W
DORI		(230.64 ft) 116.1 m	(92.19 ft) 46.5 m	(46.26 ft) 23.2 m	(22.97 ft) 11.6 m		BLC	Yes
Distance	6 mm	(380.91 ft)	(152.56 ft)	(76.12 ft)	(38.06 ft)		HLC	Yes
		t, Observe, Rec for defining the					WDR	140 dB
	numbers in th	video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and					Scene Self-adaptation (SSA)	Yes
commissionin		ng manual/project design tool.					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Intelligence  Intrusion, tripwire, fast moving (the three functions				Gain Control	Auto/Manual			
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					Noise Reduction	3D NR
		gathering, and parking detection					Motion Detection	OFF/ON (4 areas, rectangular)
Smart Object Detection		Smart abandoned object; smart missing object					Region of Interest (RoI)	Yes (4 areas)
SMD		SMD 3.0  Uses deep learning algorithms and works with back-end					Defog	Yes
AcuPick		devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)

videos to quickly locate targets.

Mirror	Yes				
Privacy Masking	4 areas				
LDC	Yes (only 2.8mm/3.6mm supports)				
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: 2.7 W (12 VDC); 4.2 W (PoE) Max. (H.265+ warm light+ intelligence on + WDR): 8.9 W (12 VDC); 11.6 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		
Storage Humidity	10%–95% (RH), non-condensing		
Structure			
Casing Material	Metal		
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)		
Net Weight	825 g (1.82 lb)		

Ordering Information						
Туре	Model	Description				
4MP	DH-IPC-HFW5449T-ASE-LED	4MP Full-color Fixed-focal Warm LED Bullet WizMind Network Camera				
Camera	IPC-HFW5449T-ASE-LED	4MP Full-color Fixed-focal Warm LED Bullet WizMind Network Camera				
	PFA130-E	Water-proof Junction Box				
	PFA152-E	Pole Mount Bracket				
Accessories (Optional)	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

1054 g (2.32 lb)

Gross Weight

### **Accessories**

# Optional:







PFA152-E Pole Mount Bracket



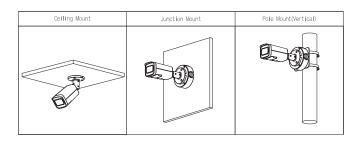
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

