

# DH-IPC-HFW5242T-ASE-MF

2MP IR Fixed-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. 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.

#### 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.

- $\cdot$  1/1.8" 2Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- $\cdot$  1/1 Alarm in/out, 1/1 audio in/out
- $\cdot$  Max. IR LEDs Length 50 m
- · Micro SD memory, IP67,IK10
- · SMD Plus

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### 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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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.

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# **Technical Specification**

# Camera

Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
RAM		1GB			
ROM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/ 100,000 s			
S/N Ratio		> 56 dB			
Minimum Illumination		0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)			
Illumination Distance		50 m (164 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Lens					
Lens Type		Fixed-focal			
Mount Type		Board-in			
Focal Length		2.8 mm, 3.6 mm, 6.0 mm			
Max. Aperture		F1.6			
Angle of View		2.8 mm: Horizontal 113° × Vertical 60° 3.6 mm: Horizontal 89° × Vertical 48° 6.0 mm: Horizontal 56° × Vertical 31°			
Aperture Type		Fixed			
Close Focus Distance		1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	41.4m (135.8ft)	16.6m (54.5ft)	8.3m (27.2ft)	4.1m (13.5ft)
	3.6mm	51.2m (168.0ft)	20.5m (67.3ft)	10.2m (33.5ft)	5.1m (16.7ft)
	6mm	80.8m (265.1ft)	O:32.3m (106.0ft)	16.2m (53.1ft)	8.1m (26.6ft)
Pan/Tilt/Rota	ition				

# Pan/Tilt/Rotation

Pan/ Ilit/Rotation	
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°;
Artificial Intelligence	
Face Detection	Face detection; track; sna optimization; optimal face enhancement; face expose extraction including 6 att glasses, expressions, mas expressions (anger, calm, disgust, surprise, confusic beard; face snapshot set a photo; 3 snapshot strateg optimization snapshot an angle filter;optimization t
	Trinuiro, intrusion, fost m

Perimeter Protection

; Rotation: 0°–360°

Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attribute extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear); mask; beard; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality priority); face angle filter;optimization time setting
Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection

People Counting	Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/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
General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly
IVS	Abandoned object; missing object
Heat Map	Yes
Video	
Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Streaming Capability	3 Streams
Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)
Frame Rate	Main Stream: 1920 × 1080 (1 fps–50/60 fps) Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 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.
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps-8192 Kbps
Day/Night	H.265: 19 Kbps–8192 Kbps Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR (140 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	Off/On (4 areas, rectangular)
Region of Interest	Off/On (4 areas)
Smart Illumination	Yes
Defog	Yes
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 areas, rectangular)
Audio	
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;Defocus Detection;scene changing;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management

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#### Network

Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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	
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	
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P	
User/Host	20 Users	
Storage	NAS; FTP; SFTP Micro SD card (support max. 256 G)	
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	iOS; Android	
Certifications		
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	
Interface		
Audio Interface	1/1 channel In/Out	
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	
Electrical		
Power Supply	DC 12V (±30%)/PoE (802.3af)/ePoE	
Power Consumption	Basic power consumption: 1.7W (12V DC); 2.2W (PoE) Max. power consumption (max. stream + intelligent function + IR LED): 8.7W (12V DC); 9.3W (PoE)	
Environmental		
Operating Conditions	$-40^\circ$ C to +60° C (–40° F to +140° F)/Less than 95% RH	
Storage conditions	-40° C to +60° C (-40° F to +140° F)	
Protection Grade	IP67,IK10	
Construction		
Casing	Metal	
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")	
Net Weight	0.815 kg (1.80 lb)	

#### **Ordering Information** Part Number Description Туре DH-IPC-HFW5242TP-2MP IR Fixed-focal Bullet WizMind ASE-MF Network Camera, WDR, PAL DH-IPC-HFW5242TN-2MP IR Fixed-focal Bullet WizMind ASE-MF Network Camera, WDR, NTSC 2MP camera IPC-HFW5242TP-2MP IR Fixed-focal Bullet WizMind Network Camera, WDR, PAL ASE-MF IPC-HFW5242TN-2MP IR Fixed-focal Bullet WizMind ASE-MF Network Camera, WDR, NTSC PFA130-E Junction box Accessories PFA152-E Pole Mount (optional) PFA151 Corner Mount

# Accessories

# **Optional:**







PFA130-E

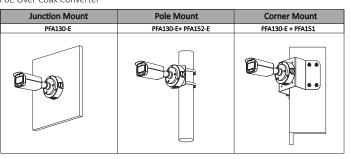


PFA151 Corner Mount

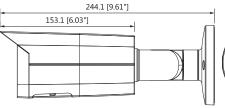




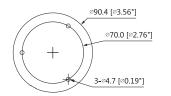
LR1002 ePoE Over Coax Converter



# Dimensions (mm[inch])







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