



# DH-IPC-HFW71242H-Z

12MP IR 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 advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, ANPR, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

#### 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.

## **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.

## **ANPR**

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

- 12MP 1/1.7" CMOS image sensor, high image definition
- Outputs max. 12MP (4000 × 3000) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max. IR distance: 60 m
- · Rotation mode, DWDR; 3D NR, HLC, BLC, digital watermarking
- ROI, SVC, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Perimeter Protection , Face Detection , Video Metadata , ANPR , People Counting, Queue Management
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G
- 24V AC/12V DC/PoE power supply (the power ports are different depending on the power supply); 12V DC power output, max. current 165mA; easy for installation.
- IP67, IK10 protection
- · Five streams for three-channel HD video













### **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 reports to meet your requirements.

# **Queue Management**

With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.

### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.



Technical	Specificatio	n						Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/
Camera								daily reports.  Support queue management, and displaying and
Image Sensor		1/1.7"12Megapixel progressive CMOS					People Counting	outputting monthly/daily reports. Support 4 tripwire rules configuration, people
Max. Resolution		4000 (H) × 3000 (V)						counting in 4 areas, and 4 queue management functions.
ROM		4 GB					Vehicle detection, non-motor vehicle detection, face	
RAM		2 GB					Video Metadata	detection, human body detection, track, optimization, snapshot, report high quality picture, vehicle attributes (license plate, vehicle type, vehicle color, and vehicle brand), other attributes (sun visor, seatbelt, smoking, phoning, in-car accessories, and annual vehicle inspection mark), non-motor vehicle attributes (vehicle type, vehicle color, hat, driver number, cloth type, and cloth color), personnel attribute (cloth type, trousers type, cloth color, trousers color, knapsack, hat, gender and umbrella), face attribute (gender, age, expression, glasses, mask, and beard)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.01 Lux @F1.8						
S/N Ratio		>56 dB						
Illumination Distance		60m (196.9 ft) (IR LED)					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
Illuminator On/Off Control		Auto/Manual					event videos.  Video	
Illuminator Number		4 (IR LED)						H.265; H.264; H.264H; H.264B; MJPEG (only supported
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Compression Smart Codec	by the sub stream) Smart H.264+
Long		Rotation. 0 –300					Smart Codec	Smart H.265+ Main stream: 4000 × 3000 @1-25/30 fps
Lens		Motorized vari-focal						Sub stream: 704 × 576@1-25fps, 704 × 480@1-30fps Third stream: 1920 × 1080 @1-25/30 fps
Lens Type  Mount Type		φ14					Video Frame Rate	Fourth stream: 1920 × 1080 @1-25/30 fps Fifth stream: 704 × 576 @1-25 fps; 704 × 480 @1-30 fps
Focal Length		2.7 mm-12 mm					Stream Capability	5 streams
Max. Aperture		F1.8					Resolution	12M (4000 × 3000); 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536); 3M (2304 × 1296); 2M (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Field of View		Horizontal: 103°-44° Vertical: 75°-33° Diagonal: 135°-55°						
Iris Type		Auto					Bit Rate Control	CBR/VBR
Close Focus Distance		1.2 m (3.9 ft)					Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 32 kbps–14080 kbps
	Lens	Detect 93 m	Observe 37 m	Recognize 18 m	Identify 9 m		Day/Night	Auto (ICR)/Color/B/W
DORI Distance	W	(305.1 ft)	(121.4 ft)	(59.1 ft)	(29.5 ft)		BLC	Yes
	Т	205 m (672.6 ft)	82 m (269.0 ft)	41 m (134.5 ft)	20 m (65.6 ft)		HLC	Yes
Smart even	nt						DWDR	Yes
IVS	IVS		object; missir	ng object			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Professional, intelligent							Gain Control	Auto/Manual
IVS (Perimeter Protection)  Face Detection		Tripwire; intrusion; fast moving (the three functions					Noise Reduction	3D NR
		of vehicle a	nd human); loi	and accurate d tering detectio			Motion Detection	OFF/ON (4 areas, rectangular)
		gathering; parking detection					Region of Interest (RoI)	Yes (4 areas)
		Face detection; track; optimization; snapshot; face enhancement; face exposure; face attribute extract,					Smart Illumination	Yes
		expressions	(anger, calm,	sions: Gender, a happiness, sad	ness, disgust,		Defog	Yes
		matting set	ting: face, sing	ar), mask, bear de inch photo; t hot, optimizatio	three snapshot		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
		quality prio	rity; face angle	e filter; optimiz Optimal,Non-l	ation time		Mirror	Yes

Privacy Masking

4 areas

Wiz Mind   D	H-IPC-HFW71242H-Z	
Audio		
Audio Compression	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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scer changing; audio detection; voltage detection; defoct detection; external alarm; face detection; video metadata; ANPR; people counting in area; stay alarm people counting; people counting exception detectiqueue management;safety exception	
Network		
Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
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; Bonjour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	
User/Host	20 (Total bandwidth: 240 M.)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS;Dahua Cloud	
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	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		
RS-485	1 (baud rate range: 1200 bps–115200 bps)	
Audio Input	1 channel (3.5mm JACK port)	
Audio Output	1 channel (3.5mm JACK port)	
Alarm Input	3 channels in: 5mA 3V–5V DC	
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC	

# Structure

Casing	Metal + plastic
Dimensions	340.1 mm × 138.3 mm × 134 mm (13.39" × 5.44" × 5.28") (L × W × H)
Net Weight	9.11 kg (20.08 lb)
Gross Weight	11.21 kg (24.71 lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HFW71242HP-Z- 2712-DC12AC24V	12MP WizMind 7 Series IR Bullet Network Camera, PAL				
12MP Camera	DH-IPC- HFW71242HN-Z- 2712-DC12AC24V	12MP WizMind 7 Series IR Bullet Network Camera, NTSC				
Gamera	IPC-HFW71242HP-Z- 2712-DC12AC24V	12MP WizMind 7 Series IR Bullet Network Camera, PAL				
	IPC-HFW71242HN- Z-2712-DC12AC24V	12MP WizMind 7 Series IR Bullet Network Camera, NTSC				
Accessories (optional)	PFA154	Pole Mount				

# Accessories

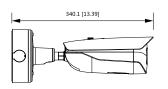
# Optional:

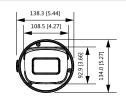


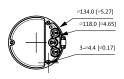
PFA154 Pole Mount

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
	9	

# Dimensions (mm[inch])







Power

Power Supply

Environment

Power Consumption

Operating Conditions

Storage Conditions

Protection Grade

12V DC/24V AC/POE+(802.3at)

-40°C to +60°C (-40°F to +140°F)

 $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ ) /Less than 95% RH

<19.32W

IP67; IK10