

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 S	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					Video Metadata	Vehicle detection, non-motor vehicle detection, face 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)
RAM		2 GB						
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 event videos.
Illuminator On/Off Control		Auto/Manual					Video	event videos.
Illuminator Nu	ımber	4 (IR LED)						H.265; H.264; H.264H; H.264B; MJPEG (only supported
Pan/Tilt/Rota	Pan/Tilt/Rotation Range)°				Video Compression	by the sub stream)
, ,		Rotation: 0°–360°					Smart Codec	Smart H.264+ Smart H.265+
Lens							Video Frame Rate	Main stream: 4000 × 3000 @1-25/30 fps Sub stream: 704 × 576@1-25fps, 704 × 480@1-30fps
Lens Type Mount Type		Motorized ν φ14	Motorized vari-focal Φ14					Third stream: 1920 × 1080 @1-25/30 fps Fourth stream: 1920 × 1080 @1-25/30 fps Fifth stream: 704 × 576 @1-25 fps; 704 × 480 @1-30
Focal Length			mm				Stream Capability	fps 5 streams
Max. Aperture	Max. Aperture		F1.8				on cam capazint,	12M (4000 × 3000); 8M (3840 × 2160); 6M (3072 ×
Field of View		Horizontal: 103°–44° Vertical: 75°–33° Diagonal: 135°–55°					Resolution	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)
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	Observe	Recognize	Identify		Day/Night	Auto (ICR)/Color/B/W
DORI Distance	W	93 m (305.1 ft)	37 m (121.4 ft)	18 m (59.1 ft)	9 m (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	Smart event						DWDR	Yes
IVS		Abandoned object; missing 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 support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection Face detection; track; optimization; snapshot; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust,					Noise Reduction	3D NR
							Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest (RoI)	Yes (4 areas)
							Smart Illumination	Yes
							Defog	Yes
		matting set	ting: face, sing	ar), mask, bear le inch photo; t hot, optimizati	three snapshot		Image Rotation	$0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Support $90^{\circ}\!/270^{\circ}$ with $1080p$ resolution and lower.)
		quality prio	rity; face angle	filter; optimiz Optimal,Non-l	ation time		Mirror	Yes

Privacy Masking

4 areas

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; scene changing; audio detection; voltage detection; effects detection; external alarm; face detection; video metadata; ANPR; people counting in area; stay alarm; people counting; people counting exception detection queue 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		
Power			
Power Supply	12V DC/24V AC/POE+(802.3at)		
Power Consumption	<19.32W		
Environment			
Operating Conditions	-40°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)		

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				
camera	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

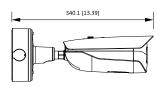
Optional:

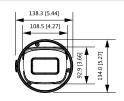


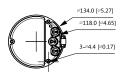
PFA154 Pole Mount

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
	9	

Dimensions (mm[inch])







Protection Grade

IP67; IK10