



DH-IPC-HFW7842H-ZVH

8MP IR Bullet WizMind Network Camera



Wiz Mind



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. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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.

- · 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition.
- · Max outputs 8MP (3840 × 2160) @25fps/30fps.
- · H.264&H.265 coding, high compression ration · Wide dynamic, day/ night, 3D NR, AWB, HLC, BLC.
- · ROI, SVC, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · With deep learning algorithm, it supports ANPR, parking space management, video metadata.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card.
- · 24 VAC/12 VDC/PoE power supply (the power ports are different depending on the power supply).
- · Five streams for three-channel HD video.
- · IP67, IK10 protection grade.
- · Anti-corrosion coating (optional).
- · 12 VDC power output, max. current 165mA, easy for installation.









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.

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.

Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in outdoor parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency.

Technical S	Specification							Manage outdoor and planned parking lots; manage
Camera				Parking Space Management	parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on a predefined			
Image Sensor 1/1.8"CMOS				number of vehicles. Support human body, human face, motor vehicle				
Effective Pixels 3840 (H) × 2160 (V) ROM 4 GB			Video Metadata	and non-motor vehicle image capture, attributes extraction, counting targets by directions (A>B, B>A, or A<>B), and exporting the report.				
				Work together with Smart NVR to perform refine				
RAM 2 GB							Intelligent Search	intelligent search, event extraction and merging to event videos.
Scanning System Progressive				Video				
Electronic Shu	tter Speed	Auto/Manual 1/3 s-1/100000 s				Video Compression	H.265, H.264,H.264H,H.264B, MJPEG (only supported	
Min. Illuminati	on		1.2 (Color, 30 F1.2 (B/W, 30 lator on)				Smart Codec	by sub stream) Smart H.265+/ Smart H.264+
S/N Ratio		> 56 dB						Main Stream: 3840 × 2160 (1–25/30 fps)
Illumination Di	istance	60 m (196.8	5 ft)				Video Frame Rate	Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps)
Illuminator On	/Off Control	Auto; manua	al					Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Illuminator Nu	mber	4 (IR LED)					Stream Capability	5 streams
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–90° Rotation: 0°–360°			Resolution	8M (3840 × 2160), 6M (3072 × 2048/3072 × 1728), 5M (2592 × 1944), 4M (2688 × 1520), 3M (2048 × 1536/2304 × 1296), 1080p (1920 × 1080), 1.3M (1280				
Lens		Matarizad vari facal				× 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)		
Lens Type		Motorized vari-focal			Bit Rate Control	CBR/VBR		
Mount Type Focal Length		Module interface 2.7 mm–12 mm			Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps		
Max. Aperture		F1.2			Day/Night	Auto (ICR)/Color/B/W		
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T)			BLC	Yes		
		Diagonal: 141° (W–55°(T)			HLC	Yes		
Iris Type		Auto; precise iris control			WDR	120 dB		
Close Focus Di	stance	W: 1 m (3.28 ft) T: 2.5 m (8.20 ft)			Scene Self-adaptation	Yes		
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto; natural; street lamp; outdoor; manual; regional Custom
DORI Distance	W	87.2 m (286.09 ft)	34.9 m (114.50 ft)	17.4 m (57.09 ft)	8.7 m (28.54 ft)		Gain Control	Auto; manual
	Т	186.7 m (612.53 ft)	74.7 m (245.07 ft)	37.3 m (122.38 ft)	18.6 m (61.02 ft)		Noise Reduction	3D NR
Smart event	Ī	, ,	,	,	, ,		Motion Detection	OFF/ON (4 areas, rectangular)
IVS Abandoned object, moving object				Region of Interest(RoI)	Yes (4 areas)			
Professional, intelligent				Electronic Image Stabilization(EIS)	Yes			
Tripwire, intrusion, fast moving (the three functions			Smart Illumination	Yes				
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.				Defog	Yes	
		ANPR, track, priority, snapshot Vehicle attributes: License plate, vehicle type, vehicle				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower)	
ANPR		color Other attributes: Seat belt, smoking, phoning Suppor up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate				Mirror	Yes	
OMIN						Privacy Masking	8 areas	
		numbers of km/h.	vehicles movir	ng at speeds of	up to 60		Audio	
							Audio Compression	G.711a; G.711Mu; G726; G.723

Λ	2	
А	ar	m

Alarm Event	No SD card, SD card full, SD card error, network disconnected, IP conflict, motion detection, video tempering detection, tripwire, intrusion, abandoned object, missing object, scene changing, audio abnormal, defocus detection, loitering detection, people gathering, fast moving, parking detection, ParkingLimitDetection , video metadata, external alarm, illegal access and safety abnormity.
-------------	--

Network

Network	RJ-45 (10/100/1000 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; 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: 160M)	
Storage	FTP; Micro SD card (256 G); NAS; SFTP	
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: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14,UL 50E NEMA Type 4X (optional)
----------------	---

Port

RS-485	1 (baud rate range: 1200 bps-115200 bps)
Audio Input	1 channel (3.5 mm JACK head)
Audio Output	1 channel (3.5 mm JACK head)
Alarm Input	3 channels in: 5mA 3V–5 VDC
Alarm Output	2 channels out: 1,000mA 30 VDC/500mA 50 VAC

Power

Power Supply	12 VDC/24 VAC/PoE+ (802.3at); ePoE
Power Consumption	Basic power consumption: 3.7W (12 VDC); 5.7W (24 VAC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 12.2W (12 VDC);17.3W (24 VAC); 17.1W (PoE) Heat power consumption: 3.3W (12 VDC);5.5W (24 VAC); 5.5W (PoE)

Environment

Operating Conditions	-40°C to +65°C (-40°F to +149°F)/Less than 95% RH	
Storage conditions	-40°C to +65°C (-40°F to +149°F)	
Protection Grade	IP67; IK10, Anti-Corrosion Protection: NEMA 4X (optional)	

Structure

Casing	Metal + Plastic
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.39" × 4.27" × 3.66") (L × W × H)
Net Weight	1600 g (3.53 lb)
Gross Weight	2400 g (5.29 lb)

Ordering Information				
Туре	Part Number	Description		
8MP Camera	DH-IPC-HFW7842H- ZVH	8MP IR Bullet WizMind Network Camera, PAL		
own camera	IPC-HFW7842H-ZVH	8MP IR Bullet WizMind Network Camera, NTSC		
Accessories (optional)	PFA154	Pole Mount		

Accessories

Optional:



PFA154

Ceiling Mount	Junction Mount	Pole Mount(Vertical)
	9	

Dimensions (mm[inch])





