

# DH-IPC-HDBW7442H-Z4FR

4MP IR Dome WizMind Network Camera



Launched by Dahua Technology Dahua WizMind is a full portfolio of solutions composed of projectoriented products including IPC, NVR, PTZ, XVR, Thermalandsoftware platformwhichadopts 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 networkcamera 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**

#### **People Counting**

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accume statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

## 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.

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

With advanced sceneadaptive 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.

- · 4MP, 1/1.8" CMOS imagesensor, low illuminance, high image definition
- · Max outputs 4MP (2688 × 1520) @50 fps/60 fps
- · H.264&H.265 coding, high compression ratio
- · 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 people counting, face recognition, perimeter protection etc
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card
- · 24V AC/12V DC/PoEpower supply
- $\cdot \, \mathsf{Five} \, \mathsf{streams} \, \mathsf{for} \, \mathsf{three}\text{-}\mathsf{channel} \, \mathsf{HD} \, \mathsf{video} \,$
- · IP67, IK10 protection grade
- · Anti-corrosion coating (optional)
- · 12V DC power output, max. current 165 mA, easy for installation











#### ePOE

DahuaePoE technologyprovides a new way to accomplishlong distance transmission between IP camera and network switch. It allows more flexible surveillance systemdesign, improves reliability and saves con struction 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.

### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

## Cyber Security

Dahua network camera is equipped with a series of key security tech nologies, such as security authentication authorization, access con trol, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

# **Privacy Protection**

Dahua Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

Technical	Specification	n					Support tripwire number counting, people counting
Camera							area, and displaying and outputting yearly/monthly/ daily reports, Support queue management, and
ImageSensor		1/1.8" 4MegapixelprogressiveCMOS				PeopleCounting	displayingand outputtingmonthly/dailyreports. Support 4 tripwire rules configuration, people
Max. Resolution		2688 (H) ×1520 (V)					countingin 4 areas, and 4 queue management functions
ROM		16 GB					
RAM		2 GB				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
ScanningSystem		Progressive					extraction.
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				IntelligentSearch	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
Min. Illumination		0.001 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux(Illuminatoron)				Video	eventvideos.
S/N Ratio		>56 dB					H.265, H.264, H.264H, H.264B, MJPEG(only supported
IlluminationDistance		80 m (262.5 ft)				Video Compression	by sub stream)
		Auto				Smart Codec	Smart H.265+/ Smart H.264+
IlluminatorOn/OffControl		3 (IR LED)				Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) Substream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
IlluminatorNumber Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					
Lens						Stream Capability	5 streams
LensType		Motorized v	Motorized vari-focal				4M (2688×1520), 3M (2304×1296), 1080p (1920×
MountType		Module interface				Resolution	1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/35
FocalLength		8 mm-32 mm					×240)
Max. Aperture		F1.6(Constant)				Bit Rate Control	CBR/VBR
Field of View		Vertical: 23°	40° (W)–15° (T (W)–9° (T) 5° (W)–18° (T)	<u> </u>		Video Bit Rate	H.264: 32 Kbps-10240 Kbps H.265: 12 Kbps-10240 Kbps
OpticalZoom		4 times				Day/Night	Auto (ICR)/Color/B/W
Iris Type		Auto;Precise iris control				BLC	Yes
Close Focus Distance		W: 2.5 m (W: 8.20 ft) T: 6 m (T: 19.68 ft)				HLC	Yes
	Lens	Detect	Observe	Recognize	Identify	WDR	140 dB
DORI Distance	W	151 m	60.7 m	30.3 m	15.1 m	SceneSelf-adaptation(SSA)	Yes
	Т	(495.4 ft) 400 m (1312.3 ft)	(199.1 ft) 160 m (524.9 ft)	(99.4 ft) 80 m (262.5 ft)	(49.5 ft) 40 m (131.2 ft)	White Balance	Auto/natural/streetlamp/outdoor/manual/regional custom
Smart event		(1312.31t) (324.31t) (202.31t) (131.21t)			(1311210)	Gain Control	Auto/Manual
IVS		Abandoned objectmovingobject				Noise Reduction	3D NR
	al,intelligen	t	, ,	,		Motion Detection	OFF/ON (4 areas, rectangular)
IVS (Perimeter Protection)		Tripwire, int		oving (the threand accurate o		Regionof Interest(RoI)	Yes(4 areas)
		of vehicle and human); parking detection, loitering detection, and peoplegathering.				Electronic Image Stabilization(EIS)	Yes
		Face recognition, track, priority, snapshot, face enhancement, face exposure				SmartIllumination	Yes
		Face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happinessand confusion), mask, beard Face mattingsetting: face, singleinch photo				Defog	Yes
						ImageRotation	0°/90°/180°/270° (Support90°/270° with1080p resolutionor below)
Face Recognition		Two snapshot strategies: priority snapshot, recognitio Face anglefilter Priority time setting Management of 5 groupface libraries				Mirror	Yes
						Privacy Masking	4 areas
		Single perso		d person regist	ter in batch	Audio	
		Max supports face contrast in face library with 200,000 faces					C 711a, C 711Mm C726, C 722
			Support Duration Optimal, Non-living Filtering			AudioCompression	G.711a; G.711Mu; G726; G.723

Viz Mind   [	DH-IPC-HDBW7442H-Z4FR	
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; loiterin detection; people gathering; parking detection; sce changing; audio detection; defocus dection; extern alarm; Face Recognition; people counting in area; so alarm; people counting; people counting exception detection; safety exception, Queue Management	
Network		
Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuratio encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generationand importingof 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; SAMB, PPPoE; 802.1x; SNMP; Bonjour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	
User/Host	20(Total bandwidth:80M)	
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	
ManagementSoftware	Smart PSS; DSS; DMSS	
Mobile Phone	IOS, Android	
Port Certifications	CE-LVD: EN62368-1,EN60950-22 (optional) CE-EMC: ElectromagneticCompatibilityDirective 2014/30/EU FCC: 47 CFR FCC Part 15, SubpartB UL/CUL: UL60950-1 CAN/CSAC22.2 No.60950-1-07,L 50E NEMA Type 4X (optional)	
Ceruncation		
RS-485	1 (baudrate range: 1200 bps–115200 bps)	
AudioInput	AudioInterface: 1/1 channelIn/Out	
AudioOutput AlarmInput	2 - 1 11 - 5 4 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Alarm Output	3 channelln: 5mA5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	
Power		
Power Supply	12V DC/24VAC/PoE+(802.3at); ePoE	
	Basic power consumption: 5.4W (12V DC); 5W(24V A 4.9W (PoE)	

Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)		
Structure			
6 .	Martal a Disarta		
Casing	Metal + Plastic		
Dimensions	129.1 mm $\times$ Φ157.9 mm(5.08" $\times$ Φ6.22") (L $\times$ W $\times$ H)		
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NI -+ \N/ - : l- +	1500 -/2 21 lb)		
Net Weight	1500 g(3.31 lb)		
Gross Weight	1600 g (3.53 lb)		
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Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW7442HP- Z4FR	4MP IR DomeWizMind Network Camera, PAL			
4MP Camera	DH-IPC- HDBW7442HN- Z4FR	4MP IR Dome WizMind Network Camera, NTSC			
	IPC-HDBW7442HP- Z4FR	4MP IR DomeWizMind NetworkCamera,PAL			
	IPC-HDBW7442HN- Z4FR	4MP IR Dome WizMind Network Camera, NTSC			
	PFA773	Sun Shade			
	PFB211W	Wall Mount			
Accessories (Optional)	PFA152-E	Pole Mount			
	PFA101	Mount Adapter			
	PFB300C	CeilingMount			

Max. power consumption (Max. stream + intelligent function+IR LED+focus): 16.7W (12V DC);15.7W(24V

Heat power consumption: 3.3W (12V DC); 5.5W(24V

-40°C to +60°C (-40°F to +140°F)/Less than 95% RH

-40°C to +60°C(-40°F to +140°F)

AC); 15.6W (PoE)

AC); 5.5W (PoE)

Power Consumption

Environment

OperatingConditions

Storageconditions

# Accessories

# Optional:



PFA773





PFB211W

PFA152-E

PFA101



Ø157.9 [Ø6.22] 74.5 [2.93] 129.1 [5.08] 0 4-04.7 [00.19] Ø142.0 [Ø5.59]

Dimensions (mm[inch])



