



DH-IPC-HTW7412-L

2MP IR Fixed-focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate 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.

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) are largely reduced.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67 and IK10 protection.
- · SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Stream Capability	2 streams
Camera							1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Image Sensor		1/2.8" CMOS				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolut	Max. Resolution		80 (V)			Bit Rate Control	CBR/VBR
ROM	ROM					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
RAM	RAM					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s				HLC	Yes
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				WDR	120 dB
S/N Ratio		>56 dB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination	Distance	up to 30 m (98.43 ft) (IR LED)				Gain Control	Manual;Auto
Illuminator C	On/Off Control	Auto;Manual				Noise Reduction	3D NR
Illuminator N	lumber	3 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rota	ation Pange	Pan: 0°–355°				Region of Interest (RoI)	Yes (4 areas)
rany michola	acion Kange	Tilt: 0°-65° Rotation: 0°-355°				Smart Illumination	Yes
Lens		Fixed-focal				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
	Lens Type					Mirror	Yes
	Lens Mount		nm			Privacy Masking	4 areas
	Focal Length		11111			Audio	
	Max. Aperture		D6°; V: 56°; D: :	127°		Built-in MIC	Yes
Field of View	Field of View		3°; V: 44°; D: 10			Audio Compression	G.711a; G.711Mu; G.726; PCM
Iris Control		Fixed				Alarm	
Close Focus	Close Focus Distance		n (2.30 ft) n (4.27 ft)	Recognize	Identify	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio
DON	Lens	Detect 43.9 m	17.5 m	8.8 m	4.4 m		detection; voltage detection; SMD; security exception
DORI Distance	2.8 mm	(144.03 ft)	(57.41 ft)	(28.87 ft)	(14.44 ft)	Network	
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.37 ft)	Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce					SDK and API	Yes
IVS (Perimet	IVS (Perimeter Protection)			functions supp letection of vel		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
		human) Work together with Smart NVR to perform refine				Interoperability	ONVIF (Profile S/Profile G); CGI; P2P
Smart Search		intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 36 M)
Video						Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Video Comp	Video Compression		; H.264H; H.26 eam)	4B; MJPEG (On	lly supported	Browser	IE; Chrome; Firefox
Smart Codec		Smart H.265+; Smart H.264+				Management Software	DSS; DMSS
		Main stream: 1920 × 1080@(1–25/30 fps)				Mobile Client	iOS; Android
Video Frame Rate		Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				Cyber Security	Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 ce rtification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade

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

Power

Power Supply	12 VDC/PoE
Power Consumption	Basic: 1.9 W (12 VDC); 2.5 W (PoE) Max. (ICR + H.265 + WDR + max. Illumination + intelligence on): 4.7 W (12 VDC); 5.6 W (PoE)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP67; IK10

Structure

Casing Material	Metal
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.34 kg (0.75 lb)
Gross Weight	0.49 kg (1.08 lb)

Ordering Information Type Model Description 2MP IR Fixed-focal Dome 2MP Camera DH-IPC-HTW7412-L WizSense Network Camera PFA136 Junction Box PFB203W Wall Mount Bracket PFA109 Mount Adapter PFB220C Ceiling Mount Bracket PFA152-E Pole Mount Bracket Accessories PFA150 Pole Mount Bracket (Optional) PFB305W Wall Mount Bracket Corner Mount Bracket PFA151 PFM321D 12 VDC 1 A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:







PFA136 Junction Box

PFB203W Wall Mount Bracket

PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E



PFA152-E PFA150
Pole Mount Pole Mount
Bracket Bracket



PFB305W Wall Mount Bracket



PFA151 Corner Mount Bracket



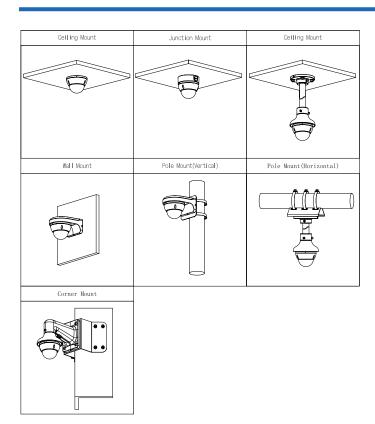
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

