

DH-IPC-HDW2441TM-S

4MP IR Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

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.

Series 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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520)@20 fps, and supports 2560×1440 @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 protection.
- · SMD Plus.













WDF

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 comprising the device.

Protection (IP67, 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.

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					Main stream: 2688 × 1520@ (1–20 fps)/2560 × 1440@ (1–25/30 fps)			
Camera	amera					Video Frame Rate	Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps)	
Image Sensor	r	1/2.9" CMOS				Video i i dine ilate		*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolut	ion	2688 (H) × 1520 (V)					6. 6. 1.11.	to the total encoding capacity.
ROM		128 MB					Stream Capability Resolution	2 streams 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296)
RAM		128 MB						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Scanning Syst	tem	Progressive						(352 × 288/352 × 240)
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumina	ation	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE)					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
S/N Ratio		0 lux (Illuminator on) >56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination I	Distance	30 m (98.43 ft) (IR LED)					BLC	Yes
	n/Off Control	Auto; manual					HLC	Yes
Illuminator N							WDR	120 dB
		1 (IR LED) Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rota	ation Range	Tilt: 0°–78° Rotation: 0°–360°					Gain Control	Auto; manual
Lens	Lens						Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}(Support~90^{\circ}/270^{\circ}~with~2688\times1520~resolution~and~lower)$
Max. Apertui	re	F1.6					Mirror	Yes
Field of View		2.8 mm: H: 95°; V: 52°; D: 114° 3.6 mm: H: 78°; V: 41°; D: 94°					Privacy Masking	4 areas
Inia Combust							Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus [Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)				Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	2.8 mm 3.6 mm	63.6 m (208.66 ft) 85.4 m	25.4 m (83.33 ft) 34.2 m	12.7 m (41.67 ft) 17.1 m	6.4 m (20.99 ft) 8.5 m		Alarm Event	No SD card; SD card full; SD card error; network disconnecton; IP conflict; illegal access; moton detecton; video tampering; tripwire; intrusion; SMD; voltage detecton; security excepton
Intelligend		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Network	
intelligent	Je	Intrusion, trip	owire (the two f	functions suppo	ort the		Network Port	RJ-45 (10/100 Base-T)
IVS (Perimete	'S (Perimeter Protection)		classification and accurate detection of vehicle and human)				SDK and API	Yes
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP				
Video							Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video Compr	ression	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)					User/Host	6 (Total bandwidth: 36 M)
Smart Codec	mart Codec		Smart H.265+; Smart H.264+				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
							Browser	IE Chrome Firefox

Management Software

DSS; DMSS



Mobile Client	iOS; Android					
Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;WSSE;Account lockout;syslog;Video encryption;802.1x;IP/MAC filtering;HTTPS;Trusted upgrade;Trusted boot;Generation importing of X.509 certification					
Certification	Certification					
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B					
Power						
Power Supply	12 VDC/PoE (802.3af)					
Power Consumption	Basic: 2.5 W (12 VDC); 3.3 W (PoE); Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 4.2 W (12 VDC); 5.1 W (PoE)					
Environment						

Environment

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

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic	
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")	
Net Weight	0.48 kg (1.06 lb)	
Gross Weight	0.68 kg (1.5 lb)	

Ordering Ir	ering Information			
Туре	Model	Description		
4MP camera	DH-IPC-HDW2441TM-S	4MP IR Fixed-focal Eyeball WizSense Network Camera		
	PFA130-E	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories	PFA109	Mount Adapter		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12V DC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	P100	MicroSD Memory Card		

Accessories

Optional:



PFA130-E Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount



PFM321D 12 VDC 1 A Power Adapter

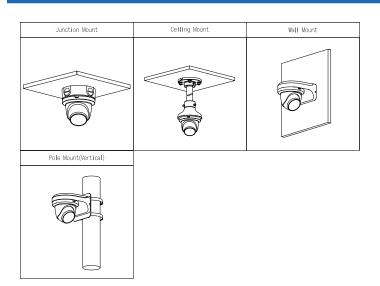


PFM900-E Integrated Mount Tester



P100 MicroSD Memory Card

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Dimensions (mm[inch])

