



# DH-IPC-HFW2441T-AS

# 4MP IR Fixed-focal Bullet 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520)@20 fps and supports 2560 × 1440  $(2560 \times 1440) @ 25/30 \text{ fps.}$
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 80 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.
- · IIntelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- · Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) 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, 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.

Technica	l Specification	on					Video	
Camera						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
Image Sensor		1/2.9" CMOS				Smart Codec	Smart H.265+; Smart H.264+	
Max. Resolution		2688 (H) × 1520 (V)				Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@	
ROM		128 MB					(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30	
RAM		128 MB					fps) *The values above are the max. frame rates of each	
Scanning System		Progressive					stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Electronic Shutter Speed		Auto/Manua	I 1/3 s-1/100,0	00 s			Stream Capability	2 streams
Min. Illumination		0.006 Lux@F1.6 (Color, 30 IRE) 0.0006 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
S/N Ratio		>56 dB				Bit Rate Control	CBR/VBR	
Illumination	Distance	up to 80 m (2	262.47 ft) (IR LE	D)				H.264: 32 kbps-6144 kbps;
Illuminator	On/Off Control	Auto; Manua	I				Video Bit Rate	H.265: 12 kbps–6144 kbps
Illuminator	Number	4 (IR LED)					Day/Night	Auto(ICR)/Color/B/W
Pan/Tilt/Rot	ation Range	Pan: 0°–360° Tilt: 0°–90°				BLC	Yes	
		Rotation: 0°–360°				HLC	Yes	
Lens						WDR	120 dB	
Lens Type		Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Mount		M12				Gain Control	Auto; Manual	
Focal Lengtl		8 mm; 6 mm; 3.6 mm				Noise Reduction	3D NR	
Max. Aperti	ıre	F1.6				Motion Detection	OFF/ON (4 areas, rectangular)	
Field of View	v	3.6 mm: H: 84°; V: 42°; D: 101° 6 mm: H: 52°; V: 28°; D: 61° 8 mm: H: 40°; V: 23°; D: 46°				Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Fixed				Smart Illumination	Yes	
Close Focus Distance		3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft) 8 mm: 4.6 m (15.09 ft)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Privacy Masking	4 areas
	5.0 111111	(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Audio	
DON	6 mm	124.0 m (406.82 ft)	49.6 m (162.73 ft)	24.8 m (81.36 ft)	12.4 m (40.68 ft)		Built-in MIC	Yes
DORI Distance	8 mm	150.4 m (493.44 ft)	60.2 m (197.51 ft)	30.1 m (98.75 ft)	15.0 m (49.21 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
		ct, Observe, Recognize, Identify) is a standard system				Alarm		
distinguish pe this table do		for defining the ability of a person viewing the video to ersons or objects within a covered area. The numbers in not reflect intelligent function distances. For intelligent inces, refer to installation and commissioning manual/ in tool.					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Intelligence			Network					
IVS (Derimo	IVS (Parimeter Protection)		owire (the two i				Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)				SDK and API	Yes	
Smart Search		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; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
								ONLYIE /Profile S /Profile C /Profile TV: CCI

Interoperability

ONVIF (Profile S/Profile G/Profile T); CGI

# Wiz Sense | DH-IPC-HFW2441T-AS

User/Host	6 (Total bandwidth: 36 M)		
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 and importing of X.509 certification		

### Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B
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### Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5VDC
Alarm Output	1 channel out: 300 mA 12 VDC

### Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.3 W (12 VDC); 3 W (PoE) Max. (H.265+intelligence on +WDR + max. illumination): 7 W (12 VDC); 8.3 W (PoE)		

# 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, IK10 (optional)

# Structure

Casing Material	Metal
Product Dimensions	238.5 mm × Φ90.7 mm (9.39" × Φ3.57")
Net Weight	0.72 kg (1.90 lb)
Gross Weight	0.95 kg (1.52 lb)

Ordering Information			
Туре	Model	Description	
4MP Camera	DH-IPC-HFW2441T-AS	4MP IR Fixed-focal Bullet WizSense Network Camera	
	PFA130-E	Junction Box	
	PFA152-E	Pole Mount Bracket	
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter	
` ' '	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

### **Accessories**

# Optional:







PFA130-E Junction Box

PFA152-E Pole Mount Bracket

12 VDC 1A Power Adapter



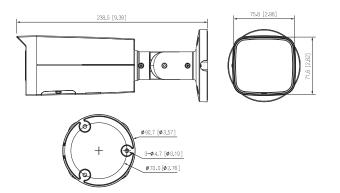
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Celling Mount	Junction Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])



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