



DH-IPC-HFW3441T-AS-P

4MP Wide Angle Fixed 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.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 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

EPTZ

With advanced target detection and tracking algorithms, Dahua EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

SMD 3.0

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 1/2.7" CMOS starlight-grade image sensor, low luminance, and high definition image.
- Outputs 4 MP (2688 × 1520) @25/30 fps , and supports max. 5 MP (2880 × 1620) @20 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 20 m.
- ROI, SMART H.264 +/H.265+, AI 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).
- Abnormality detection: Motion detection, video tampering, scene changing, 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.
- IP67 protection.
- EPTZ: Enlarge and track the targets of intelligent alarms.
- SMD 3.0.













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.

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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (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: 2880 × 1620 @(1–20 fps)/2688 × 1520 @ (1–25/30 fps)	
Camera								sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)	
Image Sensor		1/2.7" CMOS					Video Frame Rate	third stream:1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each	
Max. Resolution		2880 (H) × 1620 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
ROM		128 MB					Stream Capability	3 streams	
RAM		512 MB						5M (2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M	
Scanning System		Progressive					Resolution	(2048 × 1536); 2304 × 296 ; 1080p(1920 × 1080); 1.3M (1280 × 960); 720p(1280×720); D1 (704× 576/704×480); VGA(640 × 480); CIF(352 × 288/352 ×	
Electronic Sh	Electronic Shutter Speed		1/3 s-1/100,00	00 s				240)	
Min. Illumination		0.01 lux@F2.0 (Color,30 IRE) 0.001 lux@F2.0 (B/W,30 IRE) 0 lux (Illuminator on)					Bit Rate Control Video Bit Rate	CBR/VBR H.264: 3 kbps-8192 kbps;	
S/N Ratio		>56 dB					Day/Night	H.265: 3 kbps–8192 kbps Auto (ICR)/Color/B/W	
Illumination Distance		20 m (65.62 ft) (IR LED)					BLC		
								Yes	
Illuminator On/Off Control		2 (IR LED)					HLC	Yes	
Illuminator Ni	Illuminator Number						WDR	120dB	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Scene Self-adaptation (SSA)	Yes	
Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Type		Fixed-focal					Gain Control	Auto; Manual	
Lens Mount	Lens Mount						Noise Reduction	3D NR	
Focal Length		2.1 mm					Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Apertu	Max. Aperture						Region of Interest (RoI)	Yes (4 areas)	
			LDC is disabled:				Smart Illumination	Yes	
Field of View		Horizontal: 180°; Vertical: 78°; Diagonal: 180° LDC is enabled (by default): Horizontal: 170°; Vertical: 75°; Diagonal: 175°					Defog	Yes	
Close Focus Distance		0.6 m (1.97 ft)					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 2688×1520 resolution and lower)	
DORI	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes	
Distance	2.1 mm	52.0 m	20.8 m	10.4 m	5.2 m		Privacy Masking	4 areas	
Intellines		(170.60 ft) (68.24 ft) (34.12 ft) (17.06 ft)					Audio		
Intelligen	Le	Intrusion, tripwire (the two functions support the					Built-in MIC	Yes	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
SMD 3.0		Less false alarm, longer detection distance					Alarm		
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; SMD; security exception	
Video									
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)							
Smart Codec		Smart H.265+; Smart H.264+					Network		
Al Coding		AI H.265; AI H.264					Network Port	RJ-45 (10/100 Base-T)	
							SDK and API	Yes	

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Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade	
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: 5 mA 3–5V DC	
Alarm Output	1 channel out: 1,000 mA 30V DC/500mA 50V DC	
Power		
Power Supply	12 VDC/PoE	
Power Consumption	Basic: 3.1 W (12 V DC); 5.3 W (PoE) Max. (H.265+main stream/IR intensity+IR on): 4 W (12V DC); 6.5 W (PoE)	
Environment		
Operating Temperature	$-40~^{\circ}\text{C}$ to $+60~^{\circ}\text{C}$ ($-40~^{\circ}\text{F}$ to $+140~^{\circ}\text{F}$)/Less than 95% RH	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67	
Structure		
Casing	Metal	
Product Dimensions	249.3 mm \times 90.7 mm \times 90.4 mm (9.81" \times 3.57" \times 3.56") (L \times W \times H)	
Net Weight	820 g (1.81 lb)	

1090 g (2.40 lb)

Gross Weight

Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-HFW3441T-AS-P	4MP Wide Angle Fixed Bullet WizSense Network Camera				
4MP Camera	IPC-HFW3441T-AS-P	4MP Wide Angle Fixed Bullet WizSense Network Camera				
	PFA130-E	Junction Box				
	PFA135	Junction Box				
Accessories	PFA152-E	Pole Mount				
(optional)	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:







PFA130-E Junction Box

Junction Box

PFA152-E Pole Mount









PFM321D 12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

TF-P100 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





