



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 \times 1520) @25/30 fps , and supports max. 5 MP (2880 \times 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) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
Camera								
Image Sensor		1/2.7" CMOS					Video Frame Rate	fps) 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					Resolution	5M (2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (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 ×
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						240)
Min. Illumination		0.01 lux@F2.0 (Color,30 IRE) 0.001 lux@F2.0 (B/W,30 IRE)					Bit Rate Control	CBR/VBR
with maillination		0 lux (Illuminator on)					Video Bit Rate	H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		Up to 20 m (65.62 ft) (IR LED)					BLC	Yes
Illuminator O	Illuminator On/Off Control						HLC	Yes
Illuminator Number		2 (IR LED)					WDR	120dB
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Scene Self-adaptation (SSA)	Yes
Lens		notation. 0 300					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Fixed-focal					Gain Control	Auto; Manual
Lens Mount		M12					Noise Reduction	3D NR
Focal Length		2.1 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture		F2.0					Region of Interest (RoI)	Yes (4 areas)
		LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180°					Smart Illumination	Yes
Field of Viev	V	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 (170.60 ft)	20.8 m (68.24 ft)	10.4 m (34.12 ft)	5.2 m (17.06 ft)		Privacy Masking	4 areas
Intelligen	ice	(2.333.1)					Audio	
meemBerr		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
Quick Pick	Quick Pick		quickly pick up				Alarm	
Smart Search		that users are interested in from SMD events 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; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
Video		H.265; H.264; H.264B; MJPEG (Only supported by the					Network	
Video Compression		sub stream)					Network Port	RJ-45 (10/100 Base-T)
Smart Codec		Smart H.265+; Smart H.264+					SDK and API	Yes
Al Coding		AI H.265; AI H.264					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
								, 10

Wiz Sense | DH-IPC-HFW3441T-AS-P

IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P	
ONVIF (Profile S/Profile G/Profile T); CGI; P2P	
20 (Total bandwidth: 64 M)	
FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
IE Chrome Firefox	
SmartPSS Lite; DSS; DMSS	
iOS; Android	
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	
1 channel (RCA port)	
1 channel (RCA port)	
1 channel in: 5 mA 3–5V DC	
1 channel out: 1,000 mA 30V DC/500mA 50V DC	
12 VDC/PoE	
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)	
$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH	
-40 °C to +60 °C (-40 °F to +140 °F)	
IP67	
Metal	
249.3 mm \times 90.7 mm \times 90.4 mm (9.81" \times 3.57" \times 3.56") (L \times W \times H)	
820 g (1.81 lb)	
1090 g (2.40 lb)	

Ordering Information							
Туре	Model	Description					
4MP Camera	DH-IPC-HFW3441T-AS-P	4MP Wide Angle Fixed Bullet WizSense Network Camera					
4IVIP 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:







PFA135 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)
	9	

Dimensions (mm[inch])





