

DH-IPC-HFW3441T-AS-P

4MP Wide Angle Fixed Bullet WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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.

- 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 4.0.



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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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

Technical Specification Camera 1/2.7" CMOS Image Sensor Max. Resolution 2880 (H) × 1620 (V) ROM 128 MB RAM 512 MB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.01 lux@F2.0 (Color,30 IRE) Min. Illumination 0.001 lux@F2.0 (B/W,30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Up to 20 m (65.62 ft) (IR LED) Illumination Distance Illuminator On/Off Control Auto Illuminator Number 2 (IR LED) Pan: 0°-360° Pan/Tilt/Rotation Range Tilt: 0°–90° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.1 mm F2.0 Max. Aperture LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180° Field of View LDC is enabled (by default): Horizontal: 170°; Vertical: 75°; Diagonal: 175° 0.6 m (1.97 ft) **Close Focus Distance** Detect Observe Recognize Identify Lens 52.0 m 20.8 m 10.4 m 5.2 m 2.1 mm (170.60 ft) (68.24 ft) (34.12 ft) (17.06 ft) DORI *DORI (Detect, Observe, Recognize, Identify) is a standard system Distance (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool. Intelligence Intrusion, tripwire (the two functions support the IV/C (Desting after Drate atis

IVS (Perimeter Protection)	classification and accurate detection of vehicle and human)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+

AI Coding	AI H.265; AI H.264	
Arcoung		
Video Frame Rate	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) third stream: 1920 × 1080 @ (1–25/30 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.	
Stream Capability	3 streams	
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 × 240)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (Rol)	Yes (4 areas)	
Smart Illumination	Yes	
Defog	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
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	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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	

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 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH	
-40 °C to +60 °C (-40 °F to +140 °F)	
IP67	
Metal	
249.3 mm × 90.7 mm × 90.4 mm (9.81" × 3.57" × 3.56") (L × W × 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	
	IPC-HFW3441T-AS-P	4MP Wide Angle Fixed Bullet WizSense Network Camera	
Accessories (optional)	PFA130-E	Junction Box	
	PFA135	Junction Box	
	PFA152-E	Pole Mount	
	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:





PFA130-E Junction Box

PFA135 Junction Box



Pole Mount

256GB U 42 ™250 V30 18



PFM321D

12 VDC 1A

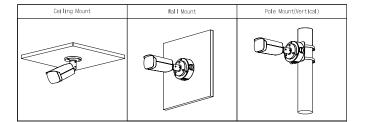
Power Adapter



Integrated Mount Tester



Card

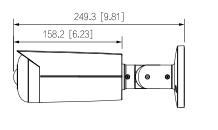


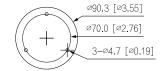


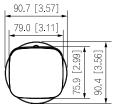




Dimensions (mm[inch])







Rev 002.000 © 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.