



# 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 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  $\times$  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.
- $\bullet$  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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						A	AI Coding	AI H.265; AI H.264
Camera								Main stream: 2880 × 1620 @(1–20 fps )/2688 × 1520 @
Image Sensor		1/2.7" CMOS						(1–25/30 fps ) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30
Max. Resolution		2880 (H) × 1620 (V)				\	Video Frame Rate	fps) third stream:1920 $\times$ 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each
ROM		128 MB						stream; for multiple streams, the values will be subjected to the total encoding capacity.
RAM		512 MB				S	Stream Capability	3 streams
Scanning System		Progressive					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 ×
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s				F		
Min. Illumination		0.01 lux@F2.0 (Color,30 IRE) 0.001 lux@F2.0 (B/W,30 IRE) 0 lux (Illuminator on)				E	Bit Rate Control	240) CBR/VBR
S/N Ratio		>56 dB					Video Bit Rate	H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps
Illumination Distance		Up to 20 m (65.62 ft) (IR LED)					Day/Night	Auto (ICR)/Color/B/W
Illuminator Or	n/Off Control	Auto					BLC	Yes
Illuminator Nu	ımber	2 (IR LED)					HLC	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					WDR	120dB
Lens		Rotation: 0°–360°					Scene Self-adaptation (SSA)	Yes
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount	Lens Mount					(	Gain Control	Auto; Manual
Focal Length		2.1 mm					Noise Reduction	3D NR
Max. Apertui	re	F2.0					Motion Detection	OFF/ON (4 areas, rectangular)
		LDC is disable		20 D: La	008	F	Region of Interest (RoI)	Yes (4 areas)
Field of View	Field of View		80°; Vertical: 78 d (by default): 70°; Vertical: 75			S	Smart Illumination	Yes
Close Focus I	Close Focus Distance		i)			[	Defog	Yes
Lens		0.6 m (1.97 ft)  Detect Observe Recognize Identify			Identify	1	mage Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
	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)	ľ	Mirror	Yes
DORI	*DORI (Detec	r, Observe, Recognize, Identify) is a standard system			, ,	F	Privacy Masking	4 areas
Distance		EN-62676-4) for defining the ability of a person viewing the video to istinguish persons or objects within a covered area. The numbers in his table do not reflect intelligent function distances. For intelligent unction distances, refer to installation and commissioning manual/					Audio	
	function dista						Built-in MIC	Yes
	project design					A	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Intelligence				A	Alarm			
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events						changing; audio detection; voltage detection; external alarm; SMD; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Network	
Video		videos				ľ	Network Port	RJ-45 (10/100 Base-T)
		H.265; H.264	; H.264B: MIPF	G (Only suppo	orted by the	S	SDK and API	Yes
Video Compression Smart Codec		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)  Smart H.265+; Smart 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 encryption; trusted execution; trusted encryption; trusted
								trusted execution; trusted upgrade

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

	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;				
Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P				
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	SmartPSS Lite; 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 °C to +60 °C (-40 °F to +140 °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 × 90.7 mm × 90.4 mm (9.81" × 3.57" × 3.56") (L × W × 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					
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)