

# DH-IPC-HFW3241T-Z(A)S-S2

2MP IR Vari-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.

#### **Series Overview**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

#### **Functions**

#### 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.

#### AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

#### 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.

- 2-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 2 MP (1920 × 1080) @ 25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 60 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.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, 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 (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); max. 256 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 (optional) protection.
- SMD 4.0, AI SSA.



#### **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.

#### 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.

#### **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 comprising the device.

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### **Technical Specification**

Camera	

Camera	Camera				
Image Sensor		1/2.8" CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 60 m (196.85 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Apertu	Max. Aperture F1.5				
Field of View	,	Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 137° –35°			
		Fixed			
Close Focus I	Distance	0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI	W	44.1 m (144.67 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)
	Т	144.8 m (475.02 ft)	57.9 m (189.96 ft)	28.9 m (94.82 ft)	14.8 m (48.56 ft)
Distance	(EN-62676-4) distinguish pe this table do r	for defining the rsons or object not reflect intel	ognize, Identify e ability of a pe s within a cove ligent function astallation and	rson viewing th red area. The n distances. For i	ne video to numbers in ntelligent

function distances, refer to installation and commissioning manual/ project design tool.

### Intelligence

IVS (Perimeter Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)		
AI SSA	Yes		
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.264H; 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
Video Frame Rate	Main stream: 1920 × 1080 @ $(1-25/30)$ fps Sub stream 1: 704 × 576 @ $(1-25 \text{ fps})/704 \times 480 @$ (1-30  fps) Sub stream 2: 1920 × 1080 @ $(1-25/30 \text{ fps})$ *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	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
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	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Image Stabilization	Electronic Image Stabilization (EIS)
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
AFSA	Yes
Image Rotation	0°/90°/180°/270° (support 90°/270° with 1920 × 1080 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	-ZAS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP c onflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception
Network	
Network Port	RJ-45 (10/100 Base-T)

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Network ProtocolIP+4; IP+6; HTP; CF; UDP; ARP; RTS; RTCP; RTMP; SMTP; FTP; STP; DINC; DNS; DDNS, GoS; UPAP; NTP; SMTP; PTP; STP; DINC; DNS; DDNS, GoS; UPAP; NTP; SMTP; PTP; STP; DINC; DNS; SDNS, GoS; UPAP; NTP; SMTP; PTP; STP; DINC; DNS; SDNS, GoS; UPAP; NTP; SMTP; PTP; STP; DINC; DNS; SACount lockout; Security Ogs; verdification; yslog; HTTPS; S02.1x; Trusted boot; Trusted verdification; yslog; HTTPS; S02.1x; Trusted boot; Trusted verdification; yslog; HTTP; SMD; DINC; OGAIkroperability0. (Total bandwith: 64 M)User/Hoat0. (Total bandwith: 64 M)Ikromemart PST; Dinc; DS Card (support max. 256 G); NASIkromemart PST; Lit; DSS; DMSSManagement Softwaremart PST; Lit; DSS; DMSSMobile Client0. (SchordoidCertificationsCE-LVD: EN2368.1; ACM/CSA C22.2 No. 62368-1:4Audio Input1. channel (RCA port) (Only-ZAS supports)Audio Input1. channel (RCA port) (Only-ZAS supports)Audio Output2. supports)Audio Output1. channel out: wet contact, 300 mA 12 VDC (Only-ZAS supports)Audio OutputSas: 23.W (12 VOC); 2.9.W (ReE) Max; (WDR HTTP, TCP, TP, TP, TP, TP, TP, TP, TP, TP, TP, T	SDK and API	Yes
Cyber Securityencryption: Digest: WSSE; Account lockout; Security logs; in/MAC filtering; Generation and importing of X.509 secution; rusted upgradeInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 64 M)StorageFTP; STP; Micro SD card (support max. 256 G); NASBrowserIi: II: III chromeManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientIOS; AndroidCertificationCE-LVD: EN62368-1; CC: 47 CFR FCC Part 15, Subpart B; UL/CU: UL62368-18 CACN/CSA C22.2 No. 62368-1-14Audio InputI channel (RCA port) (Only- ZAS supports)Audio InputI channel (RCA port) (Only- ZAS supports)Audio OutputI channel (RCA port) (Only- ZAS supports)Auger ConsumptionScience Consult, Supports)Power ConsumptionI channel (RCA port) (Only- ZAS supports)Power ConsumptionI channel (RCA port) (Only- ZAS supports)FortureI channel (RCA port) (Only- ZAS supports)Power ConsumptionI channel (RCA port) (Only- ZAS supports)Power ConsumptionI channel (RCA port) (Only- ZAS supports)Forture	Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
Number of the second	Cyber Security	encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted
YearFTP: STTP: Micro SD card (support max. 256 G): NASBrowserFTP: STTP: Micro SD card (support max. 256 G): NASBrowserSmartPSS Lite; DSS; DMSSMobile ClientIoS; AndroidCertificationE-LVD: EN62368-1; C: E-MC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; U/CUL: UE2368-18 CAN/CSA C22.2 No. 62368-1-14PortIchannel (RCA port) (Only- ZAS supports)Audio InputI channel (RCA port) (Only- ZAS supports)Audio OutputI channel out: wet contact, 300 mA 12 VDC (Only-ZAS supports)Auran InputI channel out: wet contact, 300 mA 12 VDC (Only-ZAS supports)PowerI StorZeg Ten Jest: 23.00 (23.00)Power ConsumptionSasci: 23.00 (21.29.00)Power ConsumptionSasci: 23.00 (21.29.00)PorterI channel out: wet contact, 300 mA 12 VDC (Only-ZAS 	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
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Protection  IP67, IK10 (optional)    Structure    Casing  Metal    Product Dimensions  244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 3.00") (L × W × H)    Net Weight  820 g (1.81 lb)	Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F) /Less than 95% RH
Structure    Casing    Product Dimensions    244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 3.00") (L × W × H)    Net Weight    820 g (1.81 lb)	Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
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Product Dimensions      (9.61" × 3.11" × 3.00") (L × W × H)        Net Weight      820 g (1.81 lb)	Casing	Metal
	Product Dimensions	
Gross Weight 1090 g (2.40 lb)	Net Weight	820 g (1.81 lb)
	Gross Weight	1090 g (2.40 lb)

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HFW3241T-ZAS-S2	2MP IR Vari-focal Bullet WizSense Network Camera		
	DH-IPC-HFW3241T-ZS-S2	2MP IR Vari-focal 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		
	PFM100	TLC SD Card		

Accessories

#### Optional:



PFA130-E

Junction

Box



PFA135

Junction

Box



PFA152-E



PFM321D 12 VDC 1 A Power Adapter

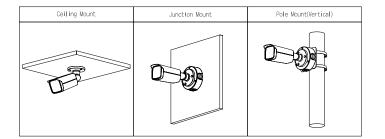
PFM900-E Integrated Mount Tester

Pole Mount



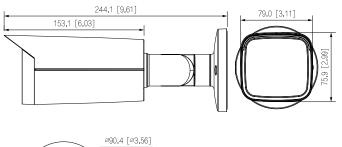


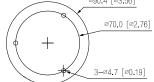
TF-P100 TLC SD Card



# Wiz Sense | DH-IPC-HFW3241T-Z(A)S-S2

### Dimensions (mm[inch])





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