

# DH-IPC-HFW3841T-Z(A)S

8MP 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**

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**

#### **SMD Plus**

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.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840  $\times$  2160) @20 fps (AI function enabled by default) and supports 8MP (3840  $\times$  2160) @25/30 fps (when AI function disabled)
- · H.265 codec, high compression rate, 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 DNR, 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, video tampering, scene changing, audio detection (Only - ZAS support), 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)
- · Supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- IP67, IK10(optional) protection
- SMD Plus













### Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

#### **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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.







Technical S <sub>1</sub>	pecificati	on						
Camera								Main stream: 3840 × 2160 @(1–20 fps by default)
Image Sensor		1/2.8"8Megapixel progressive CMOS					Video Frame Rate	$3840 \times 2160 \ @(1-25/30 \ \text{fps} \ \text{when AI function disabled})$ sub stream:
Max. Resolution		3840 (H) × 2160 (V)						704 × 576 @(1-25 fps)/704 × 480 @ (1-30 fps) third stream: 1920 × 1080 @(1-25/30 fps)
ROM		128 MB						
RAM		512 MB					Stream Capability	3 streams
Scanning System		Progressive						8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA
Min. Illumination		0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)					Bit Rate Control	(640 × 480); CIF (352 × 288/352 × 240)  CBR/VBR
S/N Ratio		> 56 dB						H.264: 3 kbps-8192 kbps
Illumination Distance		60 m (197 ft)					Video Bit Rate	H.265: 3 kbps-8192 kbps
Illuminator On/Off Control		Auto/Manual					Day/Night	Auto (ICR)/Color/B/W
Illuminator Number		4 (IR LED)					BLC	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360°					HLC	Yes
		Tilt: 0°–90° Rotation: 0°–360°					WDR	120 dB
Lens							Scene Self-adaptation (SSA)	Yes
Lens Type		Motorized vari-focal					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Mount Type		ф14					Gain Control	Auto/Manual
Focal Length		2.7 mm-13.5 mm					Noise Reduction	3D DNR
Max. Aperture		F1.5					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal:138°–36°					Region of Interest (RoI)	Yes (4 areas)
Iris Type		Fixed					Smart Illumination	Yes 0°/90°/180°/270° (Support 90°/270° with 1080p
Close Focus Distance		0.8 m (2.6 ft)					Image Rotation	resolution and lower.)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI Distance	W	85.3 m	34.1 m	17.0 m	8.5 m	,	Privacy Masking	4 areas
	VV	(279.9 ft)	(111.9 ft)	(55.8 ft)	(27.9 ft)	Audio		
	Т	280.0 m (918.6 ft)	112.0 m (367.5 ft)	56.0 m (183.7 ft)	28.0 m (91.9 ft)		Audio Compression	G.711a; G.711Mu; G726
Professional, intelligent							Alarm	
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Alarm Event	-ZAS:  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; 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; voltage detection; defocus detection; SMD; safety exception
Intelligent 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+						



# Wiz Sense | DH-IPC-HFW3841T-Z(A)S

Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTN SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security lo IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trust execution; trusted upgrade
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec
User/Host	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	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: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Port	
Audio Input	1 channel (RCA port) (Only- ZAS supports)
Audio Output	1 channel (RCA port) (Only- ZAS supports)
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 3.0W (12V DC); 3.5W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 9.2W (12V DC); 10.7W (PoE)
Environment	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Metal
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)
Net Weight	820g (1.8 lb)
Gross Weight	1090g (2.4 lb)

Ordering Information						
Туре	Model	Description				
	DH-IPC-HFW3841TP-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	DH-IPC-HFW3841TN-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	DH-IPC-HFW3841TP-ZS	8MP IR Vari-focal Bullet WizSense Network Camera, PAL				
8MP	DH-IPC-HFW3841TN-ZS	8MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
Camera	IPC-HFW3841TP-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	IPC-HFW3841TN-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	IPC-HFW3841TP-ZS	8MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	IPC-HFW3841TN-ZS	8MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

## Accessories

# Optional:





Junction Box







PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



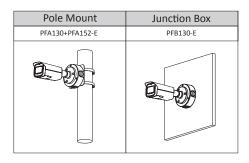
PFM900-E Integrated Mount Tester



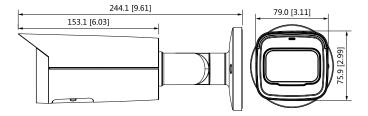
PFM114 TLC SD Card



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# Dimensions (mm[inch])





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