



# 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, by working with AI NVR.

#### 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced, by working with AI NVR.

- 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, by working with AI NVR)
- 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 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.

#### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### 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 Sp	oecificati	on						
Camera								Main stream: 3840 × 2160 (1 fps–15 fps)
Image Sensor		1/2.8"8Megapixel progressive CMOS					Video Frame Rate	2688 × 1520 (1 fps–25/30 fps) Sub stream:
Max. Resolution		3840 (H) × 2160 (V)						704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
ROM		128 MB						
RAM		512 MB					Stream Capability	2 streams
Scanning System		Progressive					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 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 (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.007 Lux @F1.5						
S/N Ratio		>56 dB					Bit Rate Control	CBR/VBR
Illumination Distance		60 m (197 ft)					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illuminator On/Off Control		Auto/Manual						11.203.3 KDp3 0132 K0p3
Illuminator Number		4 (IR LED)					Day/Night	Auto (ICR)/Color/B/W
Pan/Tilt/Rotatio	n Range	Pan: 0°–360° Tilt: 0°–90°					BLC	Yes
		Rotation: 0°–360°					HLC	Yes
Lens							WDR	120 dB
Lens Type		Motorized vari-focal					Scene Self-adaptation	Yes
Mount Type		φ14					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Focal Length		2.7 mm–13.5 mm					Gain Control	Auto/Manual
Max. Aperture		F1.5					Noise Reduction	3D DNR
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal:138°–36°					Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest (RoI)	Yes (4 areas)
Iris Type		Fixed					Smart Illumination	Yes
Close Focus Distance		0.8 m (2.6 ft)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ 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
50111 515141160	_	(279.9 ft) 280.0 m	(111.9 ft) 112.0 m	(55.8 ft) 56.0 m	(27.9 ft) 28.0 m		Audio	
	Т	(918.6 ft)	(367.5 ft)	(183.7 ft)	(91.9 ft)		Audio Compression	G.711a; G.711Mu; G726; AAC (Only- ZAS supports)
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+						



Network					
Network	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec				
User/Host	20 (Total bandwidth: 72 M)				
Storage	Dahua Cloud (only supported by Dahua version); 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	<10.3W				
Environment					
Operating Conditions	$-30^{\circ}\text{C to } +60^{\circ}\text{C} \text{ (}-22^{\circ}\text{F to } +140^{\circ}\text{F)/Less than } 95\% \text{ RH}$				
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:







PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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

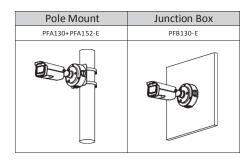


PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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



# Dimensions (mm[inch])

