

DH-IPC-HFW3841T-Z(A)S

2MP IR Vari-focal Bullet WizSense Network Camera





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

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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 \times 1080) @20 fps (AI function enabled by default) and supports 2MP (1920 \times 1080) @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 storageenvironments.
- 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.

WDF

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 instablevoltage.



Technical Sp	ecificati	on						
Camera								Main stream: 1920 × 1080 (1 fps-25/30 fps)
Image Sensor		1/2.8"2Megapixel progressive CMOS					Video Frame Rate	Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)
Max. Resolution		1920 (H) × 1080 (V)						
ROM		128 MB						
RAM		256 MB					Stream Capability	2 streams
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA
Min. Illumination		0.002 Lux @F1.5						(640 × 480); CIF (352 × 288/352 × 240)
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						
Illuminator Number		4 (IR LED)					Day/Night	Auto (ICR)/Color/B/W
Pan/Tilt/Rotation Range		Pan: 0°–360°					BLC	Yes
		Tilt: 0°–90° Rotation: 0°–360°					HLC	Yes
Lens							WDR	120 dB
Lens Type		Motorized vari-focal					Scene Self-adaptation	Yes
Mount Type		ф14					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Focal Length		2.7 mm-13.5 mm					Gain Control	
Max. Aperture		F1.5					Noise Reduction	Auto/Manual
Field of View			Horizontal: 113°–31°				Motion Detection	3D DNR OFF/ON (4 areas, rectangular)
Field of View		Vertical: 58°–17° Diagonal:138°– 36°					Region of Interest (RoI)	Yes (4 areas)
Iris Type		Fixed					Smart Illumination	Yes
		0.0 (0.0%)						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 (279.9 ft)	34.1 m (111.9 ft)	17.0 m (55.8 ft)	8.5 m (27.9 ft)		Privacy Masking	4 areas
	Т	280.0 m	112.0 m	56.0 m	28.0 m		Audio	
Professional		(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°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	2MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	DH-IPC-HFW3841TN-ZAS	2MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	DH-IPC-HFW3841TP-ZS	2MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	DH-IPC-HFW3841TN-ZS	2MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
2MP Camera	IPC-HFW3841TP-ZAS	2MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	IPC-HFW3841TN-ZAS	2MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	IPC-HFW3841TP-ZS	2MP IR Vari-focal Bullet WizSense Network Camera, PAL				
	IPC-HFW3841TN-ZS	2MP IR Vari-focal Bullet WizSense Network Camera, NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
	PFM321D	DC12V1A Power Adapter				
Accessories (optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

Accessories

Optional:



PFA130-E Junction Box



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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

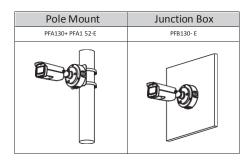


PFM900-E Integrated Mount



PFM114 TLC SD Card

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Dimensions (mm[inch])

