

DH-IPC-HFW3841T-Z(A)S

8MP IR Vari-focal Bullet WizSense Network Camera



Wiz Sense

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 × 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 × 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.



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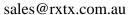
Technical Specification

Camera					
Image Sensor		1/2.8"8Megapixel progressive CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		60 m (197 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			
Mount Type		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal:138°–36°			
Iris Type		Fixed			
Close Focus Distance		0.8 m (2.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	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)
Professional	intolligo	nt			

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)		
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 supporte by the sub stream)		
Smart Codec	Smart H.265+/ Smart H.264+		

Stream Capability3 streamsResolutionM(340 × 2160); 6M (307 × 2048); 5M (3072 × 2042); 5M (2048 × 353/203 × 1290); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 1080 v (1920 × 1080); 1.3M (1248 × 350/203 × 1290); 1080 v (1920 × 1080); 123 × 1280 v (1920 ×	Video Frame Rate	Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled) sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)		
Resolution1258/2592 × 1944); 4M (2688 × 1520); 3M (2084 × 1506); 1200 (1280 × 720); 10704 × 576/704 × 480); VGA (640 × 480); CF (352 × 288/352 × 240)Bit Rate ControlCBR/VBRVideo Bit RateH.265: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbpsDay/NightAuto (ICR)/Color/B/WBLCYesVMR120 dBVora20 dBVoraAuto/natural/street lamp/outdoor/manual/regional customMite BalanceAuto/natural/street lamp/outdoor/manual/regional customMotion DetectionOF/ON (4 areas)Mart IlluminationYesSmart IlluminationYesMirrorYesAutoio Compression0/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)Autoio Compression5.7114, C.7114, STO270* with 1080p resolution and lower.)Autoio Compression5.7114, C.7114, STO270*Autoio Compression5.7114, C.7114, STO270*Autoio Compression5.7114, C.7114, STO270*Autoio Compression5.7114, C.7114, STO270*Autoio Compression5.7114, C.7114, STO270*Autoir Compression5.7114, C.7114, STO270*Autoir Compression5.7251Autoin Compression5.7251Autoir Sto Card fully SD card error; service life warring (only supported by Dahua card); network adisconnection; Veto and regin privacy service service life warring (only supported by Dahua card); network adisconnection; Veto and regin privacy service service life warring (only supported by Dahua card); network adisconnection; Pornific; Illegal access; motion detection; voltage detection; vetoring serv	Stream Capability	3 streams		
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Network

Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; 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 logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted 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-EWC: 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)	

1090g (2.4 lb)

Ordering Information

Туре	Model	Description	
8MP Camera	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	
	DH-IPC-HFW3841TN-ZS	8MP IR Vari-focal Bullet WizSense Network Camera, NTSC	
	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	
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 Tester	
	PFM114	TLC SD Card	

Accessories

Optional:



PFA130-E

Junction Box



PFA152-E

Pole Mount





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

Coax Extender

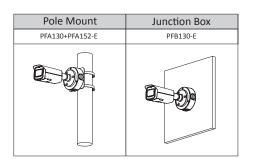
PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

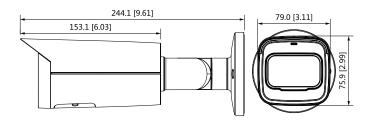


Gross Weight

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



Dimensions (mm[inch])



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