

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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 \times 2160) @20 fps (Al function enabled by default) and supports 8MP (3840 \times 2160) @25/30 fps (when Al 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification								
Camera								Main stream: 3840 × 2160 @(1–20 fps by default)
Image Sensor		1/2.8"8Megapixel progressive CMOS					Video Frame Rate	$3840 \times 2160 @(1-25/30 \text{ fps when AI function disabled})$ sub stream:
Max. Resolution		3840 (H) × 2160 (V)						704 x 576 @(1–25 fps)/704 x 480 @ (1–30 fps) third stream: 1920 x 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 Bit Rate Control	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) CBR/VBR
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					bit Nate Control	Conyvon
Illumination Distance		60 m (197 ft)					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Illuminator On/O	Illuminator On/Off Control						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 Mount Type		Motorized vari-focal φ14					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Focal Length		2.7 mm–13.5 mm					Cain Cantual	Auto/Manual
Max. Aperture		F1.5					Gain Control Noise Reduction	3D DNR
		Horizontal: 113°–31°					Motion Detection	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
Close Focus Distance		0.8 m (2.6 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
							Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
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)		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,	intellige	nt					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:
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						
Video								No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)						disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; voltage detection; defocus detection; SMD; safety exception
Smart Codec		Smart H.265+/ Smart H.264+						

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-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 \times 79.0 mm \times 75.9 mm (9.6" \times 3.1" \times 3.0") (L \times W \times H)				
Net Weight	820g (1.8 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



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



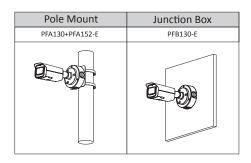
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



Dimensions (mm[inch])

