

DH-IPC-HDW3841T-ZAS

8MP IR Vari-focal Eyeball 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 (3840×2160) @20 fps (Al function enabled by default) and supports 8MP (3840×2160) @25/30 fps (when Al function disabled)
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- · Supports max. 256 G Micro SD card, built-in Mic
- 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.

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				Stream Capability	3 streams				
Camera							8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×		
Image Sensor		1/2.8"8Megapixel progressive CMOS					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 (640 × 480); CIF (352 × 288/352 × 240)	
Max. Resolution		3840 (H) × 2160 (V)							
ROM		128 MB					Bit Rate Control	CBR/VBR	
RAM		512 MB					Video Bit Rate	H.264: 3 kbps-8192 kbps	
Scanning System		Progressive						H.265: 3 kbps-8192 kbps	
Electronic Shutte	r Speed	Auto/Manual	1/3 s-1/100,0	00 s			Day/Night	Auto (ICR)/Color/B/W	
Min. Illumination	1	0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE)				BLC	Yes		
		0 Lux (Illumin	ator on)				HLC	Yes	
S/N Ratio		> 56 dB					WDR	120 dB	
Illumination Dista		50 m (164 ft)					Scene Self-adaptation (SSA)	Yes	
Illuminator On/O	off Control	Auto/Manual					(33A)		
Illuminator Numl	ber	2 (IR LED)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Pan/Tilt/Rotation	n Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Gain Control	Auto/Manual		
Lens		Notation: 0 =300			Noise Reduction	3D DNR			
Lens Type		Motorized vari-focal				Motion Detection	OFF/ON (4 areas, rectangular)		
Mount Type		ф14				Region of Interest (RoI)	Yes (4 areas)		
Focal Length		2.7 mm–13.5 mm				Smart Illumination	Yes		
Max. Aperture		F1.5				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)		
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal:138°–36°				Mirror	Yes		
Iris Type		Fixed				Privacy Masking	4 areas		
Close Focus Dista	ince	0.8 m (2.6 ft)				Audio			
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes	
		85.3 m	34.1 m	17.0 m	8.5 m		Audio Compression	G.711a; G.711Mu; G726	
DORI Distance	W	(279.9 ft)	(111.9 ft)	(55.8 ft)	(27.9 ft)		Alarm		
Professional, intellige		280.0 m 112.0 m 56.0 m 28.0 m (918.6 ft) (367.5 ft) (183.7 ft) (91.9 ft) ent Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Alarm Event	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; SMD; safety exception		
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Network			
Video						Network	RJ-45 (10/100 Base-T)		
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				SDK and API	Yes		
Smart Codec		Smart H.265+/ Smart H.264+					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	
Video Frame Rate		Main stream: $3840 \times 2160 \ @(1-20 \ fps \ by \ default)$ $3840 \times 2160 \ @(1-25/30 \ fps \ when Al function disabled)$ sub stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$ third stream: $1920 \times 1080 \ @(1-25/30 \ fps)$				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; trus execution; trusted upgrade		

Wiz Sense | DH-IPC-HDW3841T-ZAS

Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; 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

	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Certifications	2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 2.6W (12V DC); 3.3W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 6W (12V DC); 7.3W (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	108.3 mm × Φ122 mm (4.3" × Φ4.8")
Net Weight	685g (1.5 lb)
Gross Weight	828 g (1.8 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC-HDW3841TP-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, PAL		
8MP	DH-IPC-HDW3841TN-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, NTSC		
Camera	IPC-HDW3841TP-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, PAL		
	IPC-HDW3841TN-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, NTSC		
	PFA130-E	Junction Box		
	PFB203W	Wall Mount		
Accessories (optional)	PFA106	Mount Adapter		
	PFB220C	Celling Mount		
	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

PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Celling Mount

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter



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



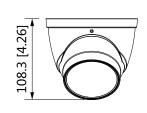
PFM900-E Integrated Mount Tester

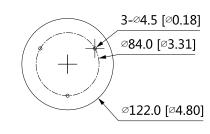


PFM114 TLC SD Card

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount
PFA130-E	PFB203W	PFA106+PFB220C	PFB203W+PFA152-E

Dimensions (mm[inch])





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