

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.

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	ecificatio	on				Stream Capability	3 streams
Camera							8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 ×
Image Sensor		1/2.8"8Mega	pixel progressi	ve CMOS		Resolution	1726/2592 × 1544); 4W (2088 × 1520); 5W (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA
Max. Resolution		3840 (H) × 21	60 (V)				(640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB			Bit Rate Control	CBR/VBR	
RAM		512 MB			Video Bit Rate	H.264: 3 kbps-8192 kbps	
Scanning System		Progressive			Video bit Nate	H.265: 3 kbps–8192 kbps	
Electronic Shutte	er Speed	Auto/Manual 1/3 s-1/100,000 s			Day/Night	Auto (ICR)/Color/B/W	
Min. Illumination	1	0.007 Lux @F1.5			BLC	Yes	
S/N Ratio		>56 dB			HLC	Yes	
Illumination Dist	ance	50 m (164 ft)			WDR	120 dB	
Illuminator On/C	Off Control	Auto/Manual			Scene Self-adaptation	Yes	
Illuminator Num	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°–3				Gain Control	Auto/Manual
Lens						Noise Reduction	3D DNR
Lens Type		Motorized va	ri-focal			Motion Detection	OFF/ON (4 areas, rectangular)
Mount Type		ф14				Region of Interest (RoI)	Yes (4 areas)
Focal Length	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: 11 Vertical: 58°– Diagonal:138'	17°			Mirror	Yes
Iris Type	Fixed				Privacy Masking	4 areas	
Close Focus Dista	ance	0.8 m (2.6 ft)				Audio	
	Lens	Detect	Observe	Recognize	Identify	Built-in MIC	Yes
	W	85.3 m	34.1 m	17.0 m	8.5 m	Audio Compression	G.711a; G.711Mu; G726; AAC
DORI Distance	VV	(279.9 ft)	(111.9 ft)	(55.8 ft)	(27.9 ft)	Alarm	
	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,	intellige	nt					No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Perimeter Protec	ction		usion (support ection of vehicle	the classification e and human)	on and	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus
Intelligent Search	h			IVR to perform raction and me			detection; SMD; safety exception
Video						Network	
Video Compress	ion			4B; MJPEG (on	ly supported	Network	RJ-45 (10/100 Base-T)
		by the sub str	,	+		SDK and API	Yes
Smart Codec Video Frame Rate		Smart H.265+/ Smart H.264+ Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled)			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	
video i i airie Nat		sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
		1920 ^ 1000	e-(± 2 <i>3</i> /301βS	1		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

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.3W

Environment

Operating Conditions	-30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)/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 Camera	DH-IPC-HDW3841TN-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, NTSC	
	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	
	PFA106	Mount Adapter	
	PFB220C	Celling Mount	
Accessories (optional)	PFA152-E	Pole Mount	
(орионаі)	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
Day 001 001 @ 2	PFM114	TLC SD Card	

Rev 001.001 © 2020 Dahua . All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

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])

