

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) 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.







Technical Specification						Stream Capability	3 streams	
Camera						Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1520);	
Image Sensor		1/2.8"8Megapixel progressive CMOS 3840 (H) × 2160 (V)					Resolution	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			.00 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB					bit rate control	CBN/VBN
RAM		512 MB				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Scanning System		Progressive						·
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Day/Night	Auto (ICR)/Color/B/W	
Min. Illumination		0.007 Lux@F1.5 (Color, 30IRE) 0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				BLC HLC	Yes	
S/N Ratio		> 56 dB					WDR	120 dB
Illumination Dis	tance	50 m (164 ft)					Scene Self-adaptation	
Illuminator On/	Off Control	Auto/Manual				(SSA)	Yes	
Illuminator Number		2 (IR LED)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Pan/Tilt/Rotation	on Range	Pan: 0°–360° Tilt: 0°–78°				Gain Control	Auto/Manual	
Lama		Rotation: 0°–360°				Noise Reduction	3D DNR	
Lens		Motorized vari-focal				Motion Detection	OFF/ON (4 areas, rectangular)	
Lens Type						Region of Interest (RoI)	Yes (4 areas)	
Mount Type		ф14 2.7 mm—13.5 mm				Smart Illumination	Yes	
Focal Length 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 Dist	tance	0.8 m (2.6 ft)					Audio	
Close Focus Dis			Observe	Donogniza	Idontifu		Built-in MIC	Yes
	Lens	Detect 85.3 m	34.1 m	Recognize 17.0 m	Identify 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	
	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)			No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Professiona	l, intellige	nt				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene	
Perimeter Prote	ection	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					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; RTMF 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 log: IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade	



Wiz Sense | DH-IPC-HDW3841T-ZAS

ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;		
Genetec Syrvenic Syrv		
20 (Total bandwidth: 72 M)		
FTP; SFTP; Micro SD card (support max. 256 G); NAS		
IE: IE8; IE9; IE11		
Chrome Firefox		
Smart PSS; DSS; DMSS		
IOS; Android		

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Certifications	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 $+60^{\circ}\text{C}$ (-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	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



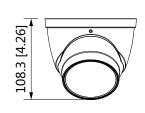
PFM900-E Integrated Mount Tester

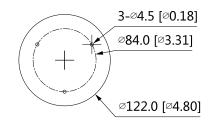


PFM114 TLC SD Card

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

Dimensions (mm[inch])





Rev 001.001

© 2021 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.