

# 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.

- $\cdot$  8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @20 fps and 2592 × 1944 @25/30 fps
- · 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)
- 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	ecification	on						Main stream (3840×2160@1–20 fps)
Camera					,	Video Frame Rate	(2592 × 1944 @1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 1080@1–25/30 fps)	
Image Sensor		1/2.8"8Megapixel progressive CMOS			:	Stream Capability	3 streams	
Max. Resolution		3840 (H) × 2160 (V)					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×
ROM		128 MB						
RAM	RAM							960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Dit Dete	H.264: 3 kbps-8192 kbps
Min. Illumination	Min. Illumination		0.007 Lux @F1.5				Video Bit Rate	H.265: 3 kbps-8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination Dist	ance	50 m (164 ft)				BLC	Yes	
Illuminator On/0	Off Control	Auto/Manual					HLC	Yes
Illuminator Num	ber	2 (IR LED)				,	WDR	120 dB
Pan/Tilt/Rotatio	n Range	Pan: 0°–360° Tilt: 0°–78°				:	Scene Self-adaptation	Yes
Lens		Rotation: 0°–360°			,	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Lens Type		Motorized vari-focal					Gain Control	Auto/Manual
Mount Type		ф14				Noise Reduction	3D DNR	
Focal Length		2.7 mm-13.5 mm				Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Aperture		F1.5				Region of Interest (RoI)	Yes (4 areas)	
		Horizontal: 113°–31°			:	Smart Illumination	Yes	
Field of View	Field of View		Vertical: 58°–17° Diagonal:138°–36°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Iris Type		Fixed				Mirror	Yes	
Close Focus Dist	ance	0.8 m (2.6 ft)				Privacy Masking	4 areas	
		0.0 (2.0)				audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes
00010: 1	2.8 mm	85.5 m (280.5 ft)	34.2 m (112.2 ft)	17.1 m (56.1 ft)	8.6 m (28.2 ft)		Audio Compression	G.711a; G.711Mu; G726; AAC
DORI Distance	3.6 mm	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)		Alarm	
	6 mm	171 m (561.0 ft)	68.4 m (224.4 ft)	34.2m (112.2ft)	17.1m (56.1ft)			No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Professional	Professional, intellige		nt				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene
Perimeter Protection		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)	
		U 265, U 264, U 264U, U 264D, MIDEC (ash, annexts)			:	SDK and API	Yes	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				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;	
Smart Codec		Smart H.265+/ Smart H.264+					802.1x; SNMP	

Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec		
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	$-30^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ( $-22^{\circ}\text{F}$ 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	Part Number	Description		
8MP Camera	DH-IPC-HDW3841TP-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, PAL		
	DH-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		
(орстопат)	PFM321D	DC12V1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		
Rev 001.001 © 2020 Dahua . All rights reserved, Design and specifications are subject to change without notice.				

 $\ \ \,$  2020 Dahua . All rights reserved. Design and specifications are subject to change 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





PFM114 Integrated Mount TLC SD Card Tester

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

# Dimensions (mm[inch])

