

# 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  $\times$  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: 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.



<b>Technical Specificat</b>	ion				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	
Max. Resolution	3840 (H) × 2160 (V)					(640 × 480); CIF (352 × 288/352 × 240)	
ROM	128 MB	128 MB			Bit Rate Control	CBR/VBR	
RAM	512 MB				Video Pit Pate	Video Bit Rate  H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	
Scanning System	Progressive				video bit nate		
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) mination 0.0007 Lux@F1.5 (B/W, 30IRE)				BLC	Yes	
Will. marimation	0.0007 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				HLC	Yes	
S/N Ratio	> 56 dB	> 56 dB			WDR	120 dB	
Illumination Distance	50 m (164 ft)				Scene Self-adaptation	Yes	
Illuminator On/Off Control	Auto/Manual		(SSA)	ies			
Illuminator Number	2 (IR LED)			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–78°		Gain Control	Auto/Manual				
Rotation: 0°–360° Lens				Noise Reduction	3D DNR		
Lens Type	Motorized vari-focal				Motion Detection	OFF/ON (4 areas, rectangular)	
					Region of Interest (RoI)	Yes (4 areas)	
Mount Type	ф14				Smart Illumination	Yes	
Focal Length  Max. Aperture	2.7 mm-13.5 mm 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°				Mirror	Yes	
Inia Tima		Diagonal:138°–36°			Privacy Masking	4 areas	
Iris Type		Fixed			Audio		
Close Focus Distance	0.8 m (2.6 ft)				Built-in MIC	Yes	
Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; G726	
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)	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	
Professional, intellig		,	,	,		warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion	
Perimeter Protection  Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			on and	Alarm Event	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception		
Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event				Network	account, sind, caret, cheepadi.		
Vidoo	videos.				Network	RJ-45 (10/100 Base-T)	
Video Compression  H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub-supported by the sub-sub-supported by the sub-supported by the sub-sub-supported by the sub-sub-supported by the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-			ly supported	SDK and API	Yes		
Smart Codec	by the sub str	ream) +/ Smart H.264	+		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMI SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Smart Codec					FIOLOCOI	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP	
$\label{eq:main_stream:} Main stream: $3840 \times 2160 \ @(1-20 \ fps \ by \ default)$ $3840 \times 2160 \ @(1-25/30 \ fps \ when \ Al \ function \ disabled)$ $video \ Frame \ Rate $$ sub \ stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$ $$ third \ stream: $$ $$ third \ stream: $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$$		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; truste execution; trusted upgrade				

1920 × 1080 @(1-25/30 fps)

# 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

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
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### 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	$-30^{\circ}$ C to $+60^{\circ}$ C ( $-22^{\circ}$ F to $+140^{\circ}$ 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	
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	
	IPC-HDW3841TP-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, PAL	
	IPC-HDW3841TN-ZAS	8MP IR Vari-focal Eyeball WizSense Network Camera, NTSC	
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

# 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



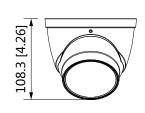
PFM900-E Integrated Mount Tester

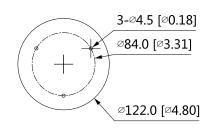


PFM114 TLC SD Card

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

# Dimensions (mm[inch])





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