



DH-IPC-HDW3841TM-AS

8MP IR Fixed 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 \times 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 \times 2160) @25/30 fps (when AI function disabled)
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 30 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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.



third stream: 1920 × 1080 @(1–25/30 fps)

Technical Sp	ecificatio	on					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					Bit Rate Control	CBR/VBR
RAM		512 MB					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Scanning System	1	Progressive					Day/Night	Auto (ICR)/Color/B/W
Electronic Shutte	er Speed	Auto/Manual 1/3 s-1/100,000 s				BLC	Yes	
Min. Illumination	n	0.007 Lux @F1.4				HLC	Yes	
S/N Ratio		>56 dB				WDR	120 dB	
Illumination Dist	ance	30 m (98.4 ft)				Scene Self-adaptation	Yes	
Illuminator On/C	Off Control	Auto/Manual					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator Num	ber	2 (IR LED)					Gain Control	Auto/Manual
Pan/Tilt/Rotation	n Range	Pan: 0°–360° Tilt: 0°–78°					Noise Reduction	3D DNR
		Rotation: 0°–360°				Motion Detection	OFF/ON (4 areas, rectangular)	
Lens					Region of Interest (RoI)	Yes (4 areas)		
Lens Type		Fixed-focal			Smart Illumination	Yes		
Mount Type Focal Length		M12 2.8 mm				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)	
i ocai Lengui		3.6 mm			Mirror	Yes		
Max. Aperture		F1.4				Privacy Masking	4 areas	
Field of View		2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°				Audio		
Iris Type		Fixed				Built-in MIC	Yes	
Close Focus Distance		2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)				Audio Compression	G.711a; G.711Mu; G726	
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	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)		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;SMD; safet
	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)			
Professional	, intellige							exception
Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Network		
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Network	RJ-45 (10/100 Base-T)	
) (Callara		videos.				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; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Smart Codec		Smart H.265+/ Smart H.264+				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	
Sinai Couec		Main stream: 3840 × 2160 @(1–20 fps by default)						
Video Frame Rate		$3840 \times 2160 \ @(1-25/30 \ fps \ when AI function disabled)$ sub stream: $704 \times 576 \ @(1-25 \ fps)/704 \times 480 \ @(1-30 \ fps)$			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone Genetec		
		third stream:						

User/Host

20 (Total bandwidth: 72 M)

Wiz Sense | DH-IPC-HDW3841TM-AS

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): 6.9W (12V DC); 7.9W (PoE)

Environment

Operating Conditions	-40° C to $+60^{\circ}$ C (-40° 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	Inner core: Metal Cover: Metal Decoration ring: Plastic
Dimensions	99.1 mm × Φ121.9 mm (3.8" × Φ4.7")
Net Weight	500 g (1.1 lb)
Gross Weight	770 g (1.7 lb)

Ordering Information			
Туре	Model	Description	
	DH-IPC-HDW3841TMP-AS	8MP IR Fixed focal Eyeball WizSense Network Camera, PAL	
8MP	DH-IPC-HDW3841TMN-AS	8MP IR Fixed focal Eyeball WizSense Network Camera, NTSC	
Camera	IPC-HDW3841TMP-AS	8MP IR Fixed focal Eyeball WizSense Network Camera, PAL	
	IPC-HDW3841TMN-AS	8MP IR Fixed focal Eyeball WizSense Network Camera, NTSC	

	PFA130-E	Junction Box
	PFA200W	Rain Shade
	PFB203W	Wall Mount
Accessories (optional)	PFA152-E	Pole Mount
	PFA106	Mount Adapter
	PFB220C	Celling 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:







PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFA200W Rain Shade



PFA106 Mount Adapter



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



PFB203W Wall Mount



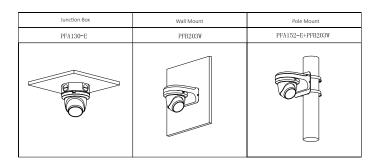
PFB220C Celling Mount



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



Dimensions (mm[inch])

