

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.

- 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.

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				Main stream:			
Camera						Video Franco Dete	3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled)
Image Sensor		1/2.8"8Megapixel progressive CMOS				Video Frame Rate	sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)
Max. Resolution		3840 (H) × 2160 (V)					
ROM		128 MB				Stream Capability	3 streams
RAM		512 MB					8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 ×
Scanning System		Progressive				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)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				000000000000000000000000000000000000000	, , , , , , ,
Min. Illumination		0.007 Lux@F1.4 (Color, 30IRE) 0.0007 Lux@F1.4 (B/W, 30IRE) 0 Lux (Illuminator on)				Bit Rate Control Video Bit Rate	CBR/VBR H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
S/N Ratio		> 56 dB				Day/Night	H.265: 3 kbps-8192 kbps Auto (ICR)/Color/B/W
Illumination Dist	ance	30 m (98.4 ft)				BLC	Yes
Illuminator On/C	Off Control	Auto/Manual				HLC	Yes
Illuminator Num	ber	2 (IR LED)				WDR	120 dB
		Pan: 0°-360°					
Pan/Tilt/Rotation	n Range	Tilt: 0°–78° Rotation: 0°–360°				Scene Self-adaptation (SSA)	Yes Auto/natural/street lamp/outdoor/manual/regional
Lens						White Balance	custom
Lens Type		Fixed-focal				Gain Control	Auto/Manual
Mount Type		M12				Noise Reduction	3D DNR
Focal Length	Focal Length		2.8 mm 3.6 mm			Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture			F1.4			Region of Interest (RoI)	Yes (4 areas)
Wax. Aperture					ogonal 127°	Smart Illumination	Yes
Field of View		2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Iris Type		Fixed				Mirror	Yes
Close Focus Distance		2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)				Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify	Audio	
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)	Built-in MIC	Yes
	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)	Audio Compression	G.711a; G.711Mu; G726
			(144.7 11)	(72.5 11)	(50.1 11)	Alarm	
Professional, intellige		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			on and		No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Video						Network	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Network	RJ-45 (10/100 Base-T)
Smart Codec		Smart H.265+/ Smart H.264+				SDK and API	Yes
						Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP

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; trusted execution; trusted upgrade	
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

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°C (-40° F to +140°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 (3.9" × Φ4.8")
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
	PFM114	TLC SD Card
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
Accessories (optional)	PFA106	Mount Adapter
(орионан)	PFB220C	Celling Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester

Accessories

Optional:









PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFA106 Mount Adapter



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



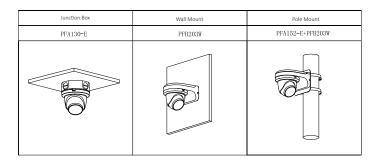
PFB203W Wall Mount



PFB220C Celling Mount



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

