

DH-IPC-HDW3241T-ZAS

2MP IR Vari-focal Eyeball WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1920 × 1080)@30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 40 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, net work disconnection, IP conflict, illegal access, 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.



Bit Rate Control

CBR/VBR

Technical Specification	on					Video Bit Rate	H.264: 3 Kbps–8192 Kbps
Camera				Day/Night	H.265: 3 Kbps-8192 Kbps		
Image Sensor	1/2.8" 2Megapixel progressive CMOS				Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution	1920 (H) ×1080 (V)				BLC	Yes	
ROM	128 MB				HLC	Yes	
RAM	256 MB				WDR	120 dB	
Scanning System	Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed	Auto/Manual	1/2 =_1/1000	00 s			Gain Control	Auto/Manual
Liecti offic Shutter Speed						Noise Reduction	3D DNR
Min. Illumination	0.002 Lux@F1.5 (Color, 30IRE) Min. Illumination 0.0002 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)			Motion Detection	OFF/ON (4 areas, rectangular)		
S/N Ratio	> 56 dB					Region of Interest(RoI)	Yes (4 areas)
Illumination Distance	40 m (131.2 ft	:)				Smart Illumination	Yes
Illuminator On/Off Control	Auto/Manual					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Illuminator Number	2 (IR LED)					Mirror	Yes
Pan/Tilt/Rotation Range	Pan: 0°-360°;	-360°; Tilt: 0°-78°; Rotation: 0°-360° Privacy Masking 4 areas					
Lens						Audio	
Lens Type	Motorized var	i-focal				Built-in MIC	Yes
Mount Type	ф14		Audio Compression	G.711a; G.711Mu; G726			
Focal Length	2.7 mm-13.5 mm		Alarm	G.711a, G.711wa, G720			
Max. Aperture	F1.5					AldIII	No SD card; SD card full; SD card error; less service time
Field of View	Horizontal: 108°–28° eld of View Vertical: 57° –16° Diagonal: 130° –33°			Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD		
Iris Type	Fixed					Network	changing, intensity change; tripwire; intrusion; swid
Close Focus Distance		0.8 m (2.6 ft)					DI 45 (40/400 D T)
Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
DORI Distance W	44.1 m (144.7 ft)	17.6 m (57.7 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)		SDK and API	Yes
Т	153.1 m (502.3 ft)	61.2 m (200.8 ft)	30.6 m (82.9 ft)	15.3 m (50.2 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional, Intellige	ent						Video encryption; firmware encryption; configuration
Perimeter Protection	Tripwire; intru	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509					
Intelligent Search	intelligent sea	er with Smart NVR to perform refine arch, event extraction and merging to event extraction and merging to event					
Video	videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
ideo Compression H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Scene Self-adaptation (SSA)	Yes		
Smart Codec		t H.265+/ Smart H.264+ User/Host 20 (Total bandwidth: 64 M)					
			Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS			
Video Frame Rate)4 × 576@1–2	5 fps/704 × 48	0@1–30 fps)		Browser	IE: IE8, IE9, IE11 Chrome
Stream Capability	3 streams						Firefox
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Management Software	Smart PSS, DSS, DMSS
	(352 × 288/352 × 240)					Mobile Phone	IOS; Android

Certification

Wiz Sense | DH-IPC-HDW3241T-ZAS

CE-LVD: EN62368-1 Certifications

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	<7.8W

Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than 95%
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 Part Number Description Type 2MP IR Vari-focal Eyeball WizSense DH-IPC-HDW3241TP-ZAS Network Camera, PAL 2MP Camera 2MP IR Vari-focal Eyeball WizSense DH-IPC-HDW3241TN-ZAS Network Camera, NTSC PFA130-E Junction Box PFB203W Wall mount PFA106 Mount adapter PFB220C Celling mount Accessories PFA152-E Pole Mount (optional) PFM321D DC12V1A Power adapter Single-port long reach ethernet over LR1002-1ET/1EC coax extender PFM900-E Integrated mount tester TLC SD card PFM114

Accessories

Optional:



PFA130-E Junction Box



Wall Mount



PFA106 Mount Adapter



PFB220C Ceiling 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 MountP	ole Mount
PFA130-E	FB203W	PFA106+PFB220C	PFB203W+PFA152-E

Dimensions (mm[inch])



