



DH-IPC-HDW5241TM-ASE

2MP IR Fixed-focal Eyeball WizMind Network Camera









Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing Al ISP technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

* The parameters and datasheets below can only be applied to 5241-ASE-S3 series.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition
- · Outputs max. 2MP (1920×1080) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 1 TB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- · IP67 protection.
- SMD 3.0.













People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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 work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification					Uses deep learning algorithms and works with back-end devices to accurately match targets, such			
Camera							AcuPick	as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate
Image Sensor		1/2.8" CMOS						targets.
Max. Resolution		1920 (H) × 1080 (V)					AISSA	Yes
ROM		4 GB					Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0007 lux@F1.6 (Color,30 IRE) 0.0004 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)					People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire people counting in area and queue management.
S/N Ratio		>56 dB						people coulding in area and queue management.
Illumination	Distance	Up to 50 m (164.04 ft) (IR)					Heat Map	Yes
Illuminator On/Off Control Illuminator Number		Auto; Manual 2 (IR LED)						Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation:0°–360°					Video Metadata	Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of
Lens								people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella.
Lens Type		Fixed-focal						Face attributes: gender, age, expressions, glasses, face mask and beard.
Lens Mount		M12					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Focal Length		2.8 mm; 3.6 mm; 6 mm						videos
Max. Apertu	re	F1.6					Smart Sound Detection	Yes
Field of View	Field of View		2.8 mm: H: 106°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63°				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Iris Control		Fixed					Video Compression	by the sub stream)
		2.8 mm: 0.7 m (2.30 ft)					Smart Codec	Smart H.265+; Smart H.264+
Close Focus Distance		3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.6 m (8.53 ft)				Al Coding	AI H.265; AI H.264	
	Lens	Detect	Observe	Recognize	Identify		Video Frame Rate	Main stream: 1080p@1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
	2.8 mm	43.9 m (144.03 ft) 58.9 m	17.5 m (57.41 ft) 23.6 m	8.8 m (28.87 ft) 11.8 m	4.4 m (14.44 ft) 5.9 m			
	3.6 mm	(193.24 ft)	(77.43 ft)	(38.71 ft)	(19.36 ft)			to the total encoding capacity.
DORI Distance	6 mm	85.5 m (280.51 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.6 m (28.22 ft)		Stream Capability	4 streams
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
	numbers in t	video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and					Bit Rate Control	CBR/VBR
commissioning manual/project design tool.							Video Bit Rate	H.264: 32 kbps-12032 kbps H.265: 12 kbps-7424 kbps
Intelligen	ce	Intrusion, tripwire, fast moving (the three functions					Day/Night	Auto(ICR)/Color/B/W
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle, animal and human); loitering detection, people gathering, parking detection. Supports long- distance mode. Supports self-learning, it filters out false alarms.					BLC	Yes
							HLC	Yes
Smart Object Detection		Smart abandoned object; smart missing object					WDR	120 dB
SMD	SMD		SMD 3.0				Scene Self-adaptation (SSA)	Yes
							(33A)	

White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes (only 2.8mm/3.6mm supports)
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
Network 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; P2P; Auto Register
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: wet contact, 5 mA 3V–5 VDC		
Alarm Output	1 channel out: wet contact, 300 mA 12V DC		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 4.3 W (12 VDC); 5.5 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 8.2 W (12 VDC); 9.7 W (PoE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67		
Structure			
	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal		

Ordering Information						
Туре	Model	Description				
2MP	DH-IPC-HDW5241TM-ASE	2MP IR Fixed-focal Eyeball WizMind Network Camera				
Camera	IPC-HDW5241TM-ASE	2MP IR Fixed-focal Eyeball WizMind Network Camera				
	PFA130-E	Water-proof Junction Box				
	PFB205W-E	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket				
Accessories	PFA109	Mount adapter				
(Optional)	PFB220C	Ceiling Mount Bracket				
	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

500 g (1.10 lb)

770 g (1.70 lb)

Net Weight

Gross Weight

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFA109 Mount adapter

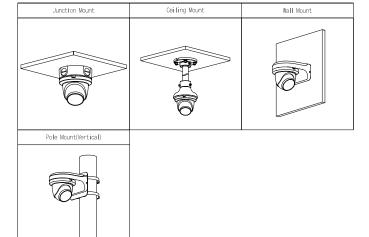






PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

