



DH-IPC-HDW5442TM-ASE

4MP 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, 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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

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 yearly/monthly/daily reports to meet your requirements.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520) @30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264 +/H.265+,AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitorin.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- · 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.
- 12 VDC/PoE power supply, easy for installation.
- · ePoE; IP67 protection.
- SMD 3.0











Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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								Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot,
Camera							Face Detection	
Image Sensor		1/1.8" CMOS						optimization snapshot and quality first); face angle filter; optimization time setting
Max. Resolution		2688 (H) × 1520 (V)					People Counting	Tripwire people counting, generating and exporting report (day/month); people counting in area; queue management; 4 rules can be set for tripwire, people counting in area and queue management.
ROM		128 MB						
RAM		512 MB						Work together with Smart NVR to perform refine
Scanning System		Progressive					Smart Search	intelligent search, event extraction and merging to event videos
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Video	
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
S/N Ratio		>56 dB					Smart Codec	Smart H.265+; Smart H.264+
Illumination Distance		50 m (164.04 ft) (IR)					Al Coding	AI H.265; AI H.264
Illuminator On/Off Control		Auto; manual					Video Frame Rate	Main stream: 2688×1520 (1 fps-25/30 fps) /1920 × 1080 (1 fps-50/60 fps) Sub stream: D1@(1-25/30 fps) Third stream: $1080p@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Illuminator Number		2 (IR LED)						
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°						
Lens							Stream Capability	3 streams
Lens Type		Fixed-focal					Resolution	2688 × 1520; 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)
Lens Mount		M12					Bit Rate Control	CBR/VBR
Focal Length		2.8 mm; 3.6 mm; 6 mm					Video Bit Rate	H.264: 3 kbps-20480 kbps
Max. Aperture		F1.6					Day/Night	H.265: 3 kbps–20480 kbps Auto (ICR)/Color/B/W
Field of View		2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134° 3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104° 6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65°					BLC	Yes
Iris Control		Fixed					HLC	Yes
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft) 6 mm: 3.8 m (12.47 ft)					WDR Scene Self-adaptation	140 dB
	Lens	Detect	Observe	Recognize	Identify		(SSA)	Yes
DORI Distance	2.8mm	57.9 m (189.96 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	2 6 22 22	71.7 m	28.7 m	14.3 m	7.2 m		Gain Control	Auto; manual
	3.6mm	(235.34 ft)	(94.16 ft)	(46.92 ft)	(23.62 ft)		Noise Reduction	3D NR
	6mm	113.1 m (371.06 ft)	45.2 m (148.29 ft)	22.6 m (74.15 ft)	11.3 m (37.07 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
Smart Event							Region of Interest (RoI)	Yes (4 areas)
IVS		Abandoned object; missing object					Defog	Yes
Heat Map		Yes					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 4M resolution and lower)
Professional, intelligent						Mirror	Yes	
1) (0 /5		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection					Privacy Masking	8 areas
IVS (Perimeter Protection)		of vehicle and human); loitering detection, people gathering, and parking detection					Audio	
SMD 3.0		Less false alarm, longer detection distance					Built-in MIC	Yes
							Audio Compression	PCM; G.711a; G.711Mu; 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; SMD; people counting in area; stay detection; people counting; security exception		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		
Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS		
Browser	IE: IE 8 and later Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-LVD: EN60950-1; 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	12 VDC/PoE (802.3af)/ePoE		
Power Consumption	Basic: 2.1 W (12 VDC); 2.6 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 6.2 W (12 VDC); 7.2 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)		
Protection	IP67		
Structure			
Casing	Metal		
Product Dimensions	Φ106 mm × 93.6 mm (Φ4.17" × 3.69")		
Net Weight	545 g (1.20 lb)		
Gross Weight	710 g (1.57 lb)		

Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-HDW5442TMP-ASE	4MP IR Fixed-focal Eyeball WizMind Network Camera, PAL				
4IVIP Callield	DH-IPC-HDW5442TMN-ASE	4MP IR Fixed-focal Eyeball WizMind Network Camera, NTSC				
	PFB204W	Wall mount Bracket				
	PFA139	Junction Box				
	PFA130-E	Junction Box				
Accessories (Optional)	PFA106	Mount Adapter				
	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100/256G	MicroSD Memory Card				

Accessories

Optional:



PFB204W Wall Mount Bracket



PFA139 Junction Box



PFA130-E JunctionBox



PFA106 Mount Adapter



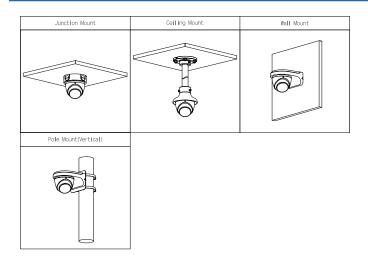
12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card



Dimensions (mm[inch])

