



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
Camera							Face Detection	exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot,
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+
		2.8 mm: 30 m (98.43 ft) (IR)					Al Coding	AI H.265; AI H.264
Illumination Distance		3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR)						Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: D1@(1–25/30 fps)
Illuminator On/Off Control		Auto; manual					Video Frame Rate	Third stream: 1080p@(1–25/30 fps) *The values above are the max. frame rates of each
Illuminator Number		2 (IR LED)						stream; for multiple streams, the values will be subjected to the total encoding capacity.
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Stream Capability	3 streams
Lens		Rotation: 0°–360°					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 Type		Fixed-focal					Bit Rate Control	CBR/VBR
Lens Mount		M12					Video Bit Rate	H.264: 3 kbps–20480 kbps
Focal Length		2.8 mm; 3.6 mm; 6 mm					Day/Night	H.265: 3 kbps–20480 kbps Auto (ICR)/Color/B/W
Max. Aperture		F1.6					BLC	Yes
Field of View		2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134° 3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104°					HLC	Yes
Iris Control		6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65° Fixed					WDR	120 dB
ins control		2.8 mm: 1.3 m (4.27 ft)					Scene Self-adaptation (SSA)	Yes
Close Focus Distance		3.6 mm: 1.9 m (6.23 ft) 6 mm: 3.8 m (12.47 ft)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto; manual
	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)		Noise Reduction	3D NR
	3.6mm	71.7 m (235.34 ft)	28.7 m (94.16 ft)	14.3 m (46.92 ft)	7.2 m (23.62 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
	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)		Region of Interest (RoI)	Yes (4 areas)
Smart Event		(37 1.00 11)	(140.23 11)	(74.1511)	(37.07 11)		Defog	Yes
IVS		Abandoned object; missing object					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
Heat Map		Yes					Mirror	Yes
Professional, intellige		ent					Privacy Masking	8 areas
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					Audio	
							Built-in MIC	Yes
SMD 3.0		Less false alarm, longer detection distance					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
SIVID 3.0		cos raise diarm, longer detection distance						

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 + plastic					
Product Dimensions	Ф106 mm × 93.6 mm (Ф4.17" × 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					
(Ориона)	PFM321D	12 VDC 1A Power Adapter					
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					

Accessories

Optional:



PFB204W Wall Mount Bracket



PFA139 Junction Box



PFA130-E JunctionBox



PFA106 Mount Adapter



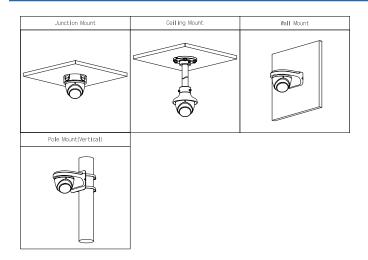
12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

