



DH-IPC-HDW5541TM-ASE

5MP 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5 MP (2592 × 1944)@20 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 monitoring scenes.
- · 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











ePoE

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.

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.

Page	Technical Specification								Face detection; track; snapshot; snapshot optimization;
Image Sensor 177.7° CAUTS Auto-Control 177.1° CAUTS 177.0° CAUTS 177.	Camera							Face Detection	
People Counting People Cou	Image Sensor		1/2.7" CMOS						optimization snapshot and quality first); face angle filter;
Food 12 Mail	Max. Resolution		2592 (H) × 1944 (V)					People Counting	report (day/month); people counting in area; queue management; 4 rules can be set for tripwire, people
Start Search Se	ROM		128 MB						
	RAM	RAM		512 MB					
Video Compression H.25s, H.26rl, H.26rls, H.	Scanning System		Progressive					Smart Search	
Min. Illumination 0.00005 (Law F) E. (g. Rey. 30 RF) 0.00005 (Rey. 3.0 H) (Rey. 30 RF) 0.00005 (Rey. 3.0 H)	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video	
	Min. Illumination		0.0005 lux@F1.6 (B/W, 30 IRE)					Video Compression	
	S/N Ratio	S/N Ratio		>56 dB				Smart Codec	Smart H.265+; Smart H.264+
Smm: 50 m (164.04 ft) (ik)	Illumination	Distance	, , , ,					Al Coding	AI H.265; AI H.264
	illumination	Distance	, , ,						
PanyTilt/Rotation Range PanyTilt/Rotation Range PanyTilt/Rotation Range PanyTilt/Rotation Range Rotation: 0"-360" Stream Capability 3 streams 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080p); 1.3M	Illuminator On/Off Control		Auto; manual					Video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Stream Capability 3 streams	Illuminator Number		2 (IR LED)						
Lens	Pan/Tilt/Rotation Range		Tilt: 0°-78°					Stream Capability	3 streams
Lens Mount M12	Lens		Rotation: 0°–360°					Resolution	(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Video Bit Rate	Lens Type		Fixed-focal					Bit Rate Control	CBR/VBR
Focal Length Max. Aperture F1.6 Auto (ICR)/Color/B/W BLC Yes BLC Yes Iris Control Fixed Close Focus Distance Close Focus Distance Detect Detect Detect Doserve Recognize Identify 2.8 mm; 16 m (2.96 ft) 3.6 mm; 116 m (5.25 ft) 6.6 mm; 21 m (10.17 ft) DORI Distance Distance 3.6 mm Som (183.7 ft) 2.8 mm Som (22.4 m) (193.7 ft) (173.49 ft) (26.24 ft) (104.99 ft) (25.49 ft) (26.25 ft) 6 mm 120 m (393.70 ft) Fixed Day/Night Auto (ICR)/Color/B/W BLC Yes WDR 120 dB Scene Self-adaptation (SSA) Yes White Balance Auto; natural; street lamp; outdoor; manual; regional custom Auto; Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of interest (Roi) Fixed Doring Yes Somart Event IVS Abandoned object; missing object Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human), loitering detection IVS (Perimeter Protection) IVS (Perimeter Protection) IVS (Perimeter Protection) IVS (Perimeter Protection) Auto; Auto; Cap HtLC Yes WDR 120 dB Scene Self-adaptation (SSA) Yes White Balance Auto; natural; street lamp; outdoor; manual; regional custom Auto; Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of interest (Roi) Yes (4 areas) Defog Yes Image Rotation O'/90'/180'/270' (Support 90'/270' with 4M resolution and lower) Privacy Masking 8 areas Audio Built-in MIC Yes Audio Compression PCM; G.7111a; G.711Mu; G.726; G.723	Lens Mount		M12					Video Bit Rate	· · · · · · · · · · · · · · · · · · ·
Max. Aperture	Focal Length	Focal Length		2.8 mm; 3.6 mm; 6 mm				Day/Night	
2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131°	Max. Apertu	Max. Aperture		F1.6					
Close Focus Distance 2.8 mm: 0.9 m (2.96 ft) 3.6 mm: 3.1 m (10.17 ft) Lens Detect 0bserve Recognize Identify 2.8 mm 3.6 mm 2.8 mm 3.6 mm 2.8 mm 3.6 mm 2.8 mm 2.8 mm 3.6 mm 3.6 mm 2.8 mm 3.6 mm 3.6 mm 2.8 mm 3.6 mm 3.6 mm 3.6 mm 2.8 mm 3.6	Field of View		3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110°						
Close Focus Distance 2.8 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft) Comparison of the processional, intelligent Security of the processional, intelligent Security of the processional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection Security of the procession of the p	Iris Control		Fixed					WDR	120 dB
Lens Detect Observe Recognize Identify 2.8 mm	Close Focus Distance		3.6 mm: 1.6 m (5.25 ft)					·	Yes
DORI Distance 2.8 mm 56 m (183.73 ft) 7(73.49 ft) 11.2 m (36.75 ft) 18.37 ft) 3.6 mm 80 m (262.47 ft) 104.99 ft) 105.9 ft) (52.49 ft) (26.25 ft) 6 mm 120 m (393.70 ft) 175.48 ft) 175.		Lens	,		Identify		White Balance		
DORI Distance 3.6 mm 80 m (262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft) 6 mm 120 m (393.70 ft) IVS Abandoned object; missing object Heat Map Professional, intelligent IVS (Perimeter Protection) Abandoned object; missing detection of vehicle and human); loitering detection, people gathering, and parking detection Addio Compression Noise Reduction 8 m (262.25 ft) Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (RoI) Yes (4 areas) Defog Yes Image Rotation O*/90*/180*/270* (Support 90*/270* with 4M resolution and lower) Mirror Yes Privacy Masking 8 areas Audio Built-in MIC Yes Audio Compression PCM; G.711a; G.711Mu; G.726; G.723								Gain Control	Auto;Manual
3.6 mm (262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft) Motion Detection OFF/ON (4 areas, rectangular) 6 mm 120 m (393.70 ft) 48 m (157.48 ft) (78.74 ft) (39.37 ft) Smart Event IVS Abandoned object; missing object Heat Map Yes Professional, intelligent IVS (Perimeter Protection) IVS (Perimeter Protection) IVS (Perimeter Protection) IVS (Perimeter Protection) INS (Perimeter Protection) Abandoned object; missing object Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection Audio Compression Audio Compression PCM; G.711a; G.711Mu; G.726; G.723		2.6 111111						Noise Reduction	3D NR
Smart Event IVS Abandoned object; missing object Heat Map Yes Professional, intelligent IVS (Perimeter Protection) IVS (Perimeter Protection) IVS (Perimeter Protection) INTUSION, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	Distance	3.6 mm						Motion Detection	OFF/ON (4 areas, rectangular)
IVS Abandoned object; missing object Image Rotation 0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower) Heat Map Yes Mirror Yes Professional, intelligent Privacy Masking 8 areas Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection of vehicle and human); loitering detection Built-in MIC Yes Audio Compression PCM; G.711a; G.711Mu; G.726; G.723		6 mm						Region of Interest (RoI)	Yes (4 areas)
Heat Map Yes Mirror Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection WS (Perimeter Protection) Wirror Privacy Masking 8 areas Audio Built-in MIC Yes Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	Smart Event						Defog	Yes	
Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection gathering, and parking detection Privacy Masking Audio Built-in MIC Yes Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	IVS		Abandoned object; missing object					Image Rotation	
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection Built-in MIC Yes Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	Heat Map		Yes					Mirror	Yes
support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection Audio Compression Support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	Professional, intelligent				Privacy Masking	8 areas			
of vehicle and human); loitering detection, people gathering, and parking detection Audio Compression PCM; G.711a; G.711Mu; G.726; G.723	IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					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

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					
5MP Camera	DH-IPC-HDW5541TMP-ASE	5MP IR Fixed-focal Eyeball WizMind Network Camera, PAL					
Sivir Calliera	DH-IPC-HDW5541TMN-ASE	5MP IR Fixed-focal Eyeball WizMind Network Camera, NTSC					
	PFB204W	Wall mount Bracket					
	PFA139	Junction Box					
	PFA130-E	Junction Box					
Accessories (Optional)	PFA106	Mount Adapter					
(Optional)	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



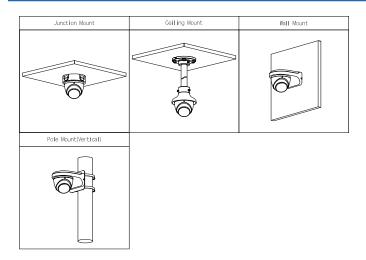
12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

