



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.

- 5MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5MP (2592 \times 1944)@20 fps , and supports 4MP (2688 \times 1520)@25/30 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 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











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.



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Technical Specification							
Image Sensor	Technical	Specification	on				
Max. Resolution 2592 (H) × 1944 (V) ROM 128 MB RAM 512 MB Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s−1/100,000 s Min. Illumination 0.0005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (R)W, 30 IRE) 0.1 kux@F1.6 (R)W, 30 IRE) 0.1 kux	Camera						
RAM 512 MB Scanning System Progressive	Image Sensor		1/2.7" CMOS				
Scanning System	Max. Resolution		2592 (H) × 1944 (V)				
Electronic Shutter Speed Auto/Manual 1/3 = 1/100,000 s Min. Illumination 0.005 lux@F1.6 (Eolor, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio > 56 dB Illuminator Distance 50 m (164.04 ft) (IR) Illuminator Number 2 (IR LED) Pan/Tilt/Rotation Range Tilt: 0°-78° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture F1.6 Field of View 3.6 mm; Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm; Horizontal: 51°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63° Iris Control Close Focus Distance 2.8 mm: 0.9 m (2.96 ft) 3.6 mm: 3.1 m (10.17 ft) Lens Dori Distance 2.8 mm (183.73 ft) (183.73 ft) (26.24 ft) (194.99 ft) (26.25 ft) 6 mm 3 m (262.47 ft) (104.99 ft) (25.49 ft) (26.25 ft) 5 mart Event IVS Abandoned object; missing object 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	ROM	ROM		128 MB			
Min. Illumination	RAM	RAM		512 MB			
Min. Illumination 0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (R/W, 30 IRE) 0.0005 luxersell	Scanning Sys	Scanning System		Progressive			
Min. Illumination O.0005 lux@PE1.6 (B/W, 30 IRE) O lux (Illuminator on) S/N Ratio > 56 dB Illuminator On/Off Control Auto; manual Illuminator Number 2 (IR LED) Pan/Tilt/Rotation Range Tilt: 0°—78° Rotation: 0°—360° Tilt: 0°—78° Rotation: 0°—360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture F1.6 Field of View 2.8 mm; Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm; Horizontal: 51°; Vertical: 58°; Diagonal: 110° 6 mm; Horizontal: 51°; Vertical: 37°; Diagonal: 63° Iris Control Fixed Close Focus Distance 2.8 mm; 0.9 m (2.96 ft) 3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft) DORI Distance 2.8 mm 0.0005 lux@F1.6 (R/W, 30 IRE) 0.0005 lux (10.4 m) 0.0007 lux	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				
Illuminator On/Off Control Auto; manual	Min. Illumination		0.0005 lux@F1.6 (B/W, 30 IRE)				
Illuminator On/Off Control Auto; manual	S/N Ratio		>56 dB				
Pan/Tilt/Rotation Range	Illumination	Distance	50 m (164.04 ft) (IR)				
Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360°	Illuminator O	n/Off Control	Auto; manual				
Pan/Tilt/Rotation Range	Illuminator N	umber	2 (IR LED)				
Lens Mount M12 Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture F1.6 Field of View 2.8 mm; Horizontal: 102*, Vertical: 71*; Diagonal: 131* 3.6 mm; Horizontal: 84*, Vertical: 58*; Diagonal: 110* 6 mm; Horizontal: 51*; Vertical: 37*; Diagonal: 63* Iris Control Fixed Close Focus Distance 2.8 mm; 0.9 m (2.96 ft) 3.6 mm; 1.6 m (5.25 ft) 6 mm; 3.1 m (10.17 ft) Lens Detect Observe Recognize Identify 2.8 mm 56 m (22.4 m (10.17 ft) 11.2 m (36.75 ft) (18.37 ft) 5.6 m (183.73 ft) (73.49 ft) (36.75 ft) (18.37 ft) DORI Distance 3.6 mm 80 m (32 m 16 m 8 m (52.49 ft) (26.25 ft) (26.25 ft) 8 m (262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft) 6 mm 120 m (48 m 24 m (78.74 ft) (39.37 ft) 12 m (393.70 ft) (157.48 ft) (78.74 ft) (39.37 ft) Smart Event IVS Abandoned object; missing object Heat Map Yes Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	Pan/Tilt/Rotation Range		Tilt: 0°-78°				
Lens Mount M12	Lens						
Focal Length 2.8 mm; 3.6 mm; 6 mm	Lens Type		Fixed-focal				
F1.6	Lens Mount	Lens Mount		M12			
2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63° Iris Control Fixed	Focal Length		2.8 mm; 3.6 mm; 6 mm				
Similar	Max. Apertu	re	F1.6				
Close Focus Distance	Field of View	Field of View		3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110°			
Close Focus Distance 3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft)	Iris Control		Fixed				
DORI DORI Distance 2.8 mm	Close Focus Distance		3.6 mm: 1.6 m (5.25 ft)				
DORI		Lens	Detect	Observe	Recognize	Identify	
DORI Distance 3.6 mm 80 m (262.47 ft) 120 m (393.70 ft) 1257.48 ft) (157.48 ft) Smart Event IVS Abandoned object; missing object Heat Map Yes Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	D02:	2.8 mm					
Smart Event IVS Abandoned object; missing object Heat Map Yes Professional, intelligent INTUS (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		3.6 mm					
IVS Abandoned object; missing object Heat Map Yes Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		6 mm					
Professional, intelligent 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	Smart Eve	ent					
Professional, intelligent Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	IVS		Abandoned object; missing object				
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	Heat Map		Yes				
support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	Profession	nal, intellige	ent	nt			
SMD 3.0 Less false alarm, longer detection distance	IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people				
	SMD 3.0		Less false alarm, longer detection distance				

Face Detection	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, optimization snapshot and quality first); face angle filter; optimization time setting	
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Video		
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	
Al Coding	AI H.265; AI H.264	
Video Frame Rate	Main stream: $2592 \times 1944@(1-20 \text{ fps})/2688 \times 1520@(1-25/30 \text{ fps})/1920 \times 1080@(1-50/60 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ 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.	
Stream Capability	3 streams	
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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto;Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Defog	Yes	
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)	
Mirror	Yes	
Privacy Masking	8 areas	
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Audio

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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 + 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		
	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		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



PFB204W Wall Mount Bracket



PFA139 Junction Box



PFA130-E JunctionBox



PFA106 Mount Adapter



PFM321D 12 VDC 1A Power Adapter

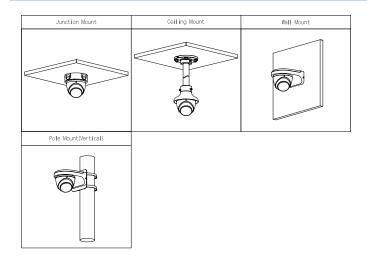


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

