

DH-IPC-HFW5541T-SE

5MP IR Fixed-focal Bullet 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 image.
- 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 80 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.
- 12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 and IK10 protection.
- SMD 3.0











ePol

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, IK10, 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Professional, intelligent		
Camera								Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	
Image Sensor		1/2.7" CMOS					IVS (Perimeter Protection)		
Max. Resolution		2592 (H) × 1944 (V)					SMD 3.0	Less false alarm, longer detection distance	
ROM		128 MB					Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo	
RAM		512 MB							
Scanning System		Progressive						or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					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.	
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)							
S/N Ratio		>56 dB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	
Illumination Distance		2.8 mm: 30 m (98.43 ft) (IR) 3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR) 8 mm: 60 m (196.85 ft) (IR) 12 mm: 80 m (262.47 ft) (IR)					Video	videos	
								H.265; H.264; H.264H; H.264B; MJPEG (Only supported	
							Video Compression	by the sub stream)	
	On/Off Control	Auto; manual					Smart Codec	Smart H.265+; Smart H.264+	
Illuminator Number		4 (IR LED)					Al Coding	Al H.265; Al H.264	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Frame Rate	Main stream: 2592 × 1944@(1–20 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) *The values above are the max. frame rates of each	
Lens		First forest						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Lens Type		Fixed-focal					Stream Capability	3 streams	
Lens Mount		M12					Resolution	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704	
Focal Length Max Aporture		2.8 mm; 3.6 mm; 6 mm; 8 mm; 12 mm F1.6						× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Wax. Apertu	Max. Aperture						Bit Rate Control	CBR/VBR	
Field of View	1	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° 8 mm: Horizontal: 38°; Vertical: 28°; Diagonal: 48° 12 mm: Horizontal: 25°; Vertical: 18°; Diagonal: 30°					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
							Day/Night	Auto (ICR)/Color/B/W	
Iris Control		Fixed					BLC	Yes	
		2.8 mm: 0.9 m (2.95 ft)					HLC	Yes	
Close Focus	Distance	3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft) 8 mm: 4.5 m (14.76 ft)					WDR	120 dB	
		12 mm: 10.3 m (33.79 f					Scene Self-adaptation (SSA)	Yes	
	Lens 2.8 mm	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	2.0111111	(183.73 ft)	(73.49 ft)	(36.75 ft)	(18.37 ft)		Gain Control	Auto; manual	
DORI Distance	3.6 mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)		Noise Reduction	3D NR	
	6 mm	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)		Motion Detection	OFF/ON (4 areas, rectangular)	
	8 mm	160 m (524.93 ft)	64 m (209.97 ft)	32 m (104.99 ft)	16 m (52.49 ft)		Region of Interest (RoI)	Yes (4 areas)	
	12 mm	240 m	96 m	48 m	24 m		Defog	Yes	
6	12 mm	(787.40 ft)	(314.96 ft)	(157.48 ft)	(78.74 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)	
Smart Event							Mirror	Yes	
IVS		Abandoned object; missing object					Privacy Masking	8 areas	
Heat Map		Yes							

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; 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: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 7.1 W (12 VDC); 8.4 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; IK10	
Structure		
Casing	Metal	
Product Dimensions	244.1 mm \times 79.0 mm \times 75.9 mm (9.61" \times 3.11" \times 2.99") (L \times W \times H)	
Net Weight	815 g (1.80 lb)	
Gross Weight	1080 g (2.38 lb)	

Ordering Information						
Туре	Model	Description				
5MP Camera	DH-IPC-HFW5541TP-SE	5MP IR Fixed-focal Bullet WizMind Network Camera, PAL				
Sivir Calliera	DH-IPC-HFW5541TN-SE	5MP IR Fixed-focal Bullet WizMind Network Camera, NTSC				
	PFA135	Junction box				
	PFA130-E	Junction box				
Accessories	PFA152-E	Pole Mount Bracket				
(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:



PFA135 Junction box



PFA130-E Junction box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

