



# DH-IPC-HFW5541T-AS-PV

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**

# **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.

#### Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- $\cdot$  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 60 m.
- ROI, 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 and heat map.
- · 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.
- · Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in speaker.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- SMD 3.0.











#### **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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



# Wiz Mind | DH-IPC-HFW5541T-AS-PV

Technical	Specification	on			
Camera					
Image Sensor		1/2.7" CMOS			
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		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination	Distance	60 m (196.85 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (IR LED) 1 (Warm light)			
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm; 8 mm			
Max. Apertu	re	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° 8 mm: Horizontal: 38°; Vertical: 28°; Diagonal: 48°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 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)			
	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)
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)
	6 mm	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)
	8 mm	160 m (524.93 ft)	64 m (209.97 ft)	32 m (104.99 ft)	16 m (52.49 ft)
Smart Eve	ent				
IVS		Abandoned object; missing object			
Heat Map		Yes			
Profession	nal, intellige	ent			
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			

SMD 3.0	Less false alarm, longer detection distance
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.
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	2592 × 1944; 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
Audio	
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; external alarm; 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; RTCI RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1; 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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: 5 mA 3V–5 VDC	
Alarm Output	1 channel out: 300 mA 12 VDC	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.8 W (12 VDC); 2.4 W (PoE) Max. (H.265 + three streams + intelligence on + IR on + warm light + max. speaker volume ): 7.1 W (12 VDC); 8.3 W (PoE)	
	VV (1 OE)	
Environment	W (I OL)	
Environment  Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	

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IP67; IK10

# Structure

Casing	Metal + plastic	
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × 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-AS-PV	5MP IR Fixed-focal Bullet WizMind Network Camera, PAL
	DH-IPC-HFW5541TN-AS-PV	5MP IR Fixed-focal Bullet WizMind Network Camera, NTSC
	PFA135	Junction Box
	PFA130-E	Junction Box
Accessories (Optional)	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100/256G	MicroSD Memory Card

# Accessories

# Optional:



PFA135 Junction Box



PFA130-E Junction Box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	
	9		

Protection

Storage Temperature



# Dimensions (mm[inch])



