



# 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
- 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 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 MIC and 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.

	Table 1 and Constitution						Professional intelligent		
Technical Specification							Professional, intellige		
Camera							IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people	
Image Sensor		1/2.7" CMOS						gathering, and parking detection	
Max. Resolution		2592 (H) × 1944 (V)					SMD 3.0	Less false alarm, longer detection distance	
ROM	ROM		128 MB				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.	
RAM		512 MB							
Scanning System		Progressive					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Siliai t Searcii	videos	
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Video	H.265; H.264; H.264H; H.264B; MJPEG (Only supported	
S/N Rati	S/N Ratio		> 56 dB				Video Compression	by the sub stream)	
5,111.00		2.8 mm: 30 m (98.43 ft) (IR)					Smart Codec	Smart H.265+; Smart H.264+	
Illumina	Illumination Distance		m (98.43 ft) (IR) (164.04 ft) (IR)				AI Coding	AI H.265; AI H.264	
		8 mm: 60 m (196.85 ft) (IR)						Main stream: 2592 × 1944 (1–20 fps) Sub stream: D1 (1–25/30 fps)	
Illumina	tor 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	
Illumina	tor Number	2 (IR LED) 1 (Warm light)						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
		Pan: 0°–360°					Stream Capability	3 streams	
Pan/Tilt,	/Rotation Range	Tilt: 0°–90° Rotation: 0°–360°						2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 ×	
Lens	Lens						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Lens Typ	oe	Fixed-focal					Bit Rate Control	CBR/VBR	
Lens Mo	Lens Mount		M12				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Focal Le	Focal Length		2.8 mm; 3.6 mm; 6 mm; 8 mm				Day/Night	Auto(ICR)/Color/B/W	
Max. Aperture		F1.6					BLC	Yes	
		2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110°					HLC	Yes	
Field of View		6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63° 8 mm: Horizontal: 38°; Vertical: 28°; Diagonal: 48°						120 dB	
Iris Cont	Iris Control		Fixed				WDR Scene Self-adaptation	120 08	
III3 COITE	1101						(SSA)	Yes	
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)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
							Gain Control	Auto;Manual	
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR	
	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)		Motion Detection	OFF/ON (4 areas, rectangular)	
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)		Region of Interest (RoI)	Yes (4 areas)	
	6 mm	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)		Defog	Yes	
	6 mm	160 m (524.93 ft)	64 m (209.97 ft)	80 m (104.99 ft)	40 m (52.49 ft)		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)	
Smart Event				Mirror	Yes				
IVS		Abandoned object; missing object					Privacy Masking	8 areas	
Heat Map		Yes					Audio		
	ι ισατ ινιαμ						Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	

### **Wiz Mind** | DH-IPC-HFW5541T-AS-PV Alarm 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 Alarm Event detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception Network RJ-45 (10/100 Base-T) Network Port SDK and API Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; Cyber Security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; Network Protocol 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 IE: IE 8 and later Browser Chrome Firefox Management Software Smart PSS; DSS; DMSS Mobile Client iOS: Android Certification CE-LVD: EN60950-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; Certifications 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 12 VDC/PoE (802.3af) **Power Supply** Basic: 1.8 W (12 VDC); 2.4 W (PoE) Max. (H.265 + three streams + intelligence on + IR on + **Power Consumption** warm light + max. speaker volume ): 7.1 W (12 VDC); 8.3

#### 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		
SIVIP Calliera	DH-IPC-HFW5541TN-AS-PV	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)

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

W (PoE)

# Dimensions (mm[inch])



