

DH-IPC-HFW5442T-S

4MP WDR IR Bullet AI Network Camera



Dahua AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro Al series contains Face Capture, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Active Deterrence and Full Color camera are also in this series. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 50/60 fps@1080 (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- · Max. IR LEDs Length 50 m
- · Micro SD memory, IP67













People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Protection(IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.



Technical Sp	ecification						Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS				Frame Rate	Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)
Effective Pixels		2688 (H) × 1520 (V)					Third Stream: 1080P (1 fps–16 fps)
RAM/ROM		512 MB/128 MB				Bit Rate Control	CBR/VBR
Scanning System		Progressive				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Day/Night	Auto (ICR)/Color/B/W
Minimum Illumination		0.001 Lux@F1.6				BLC Mode	BLC/HLC/WDR (140 dB)
IR Distance		Distance up to 50 m (164 ft)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/Manual				Gain Control	Auto/Manual
IR LEDs		4				Noise Reduction	3D DNR
Lens						Motion Detetion	Off/On (4 Zone, Rectangle)
Lens Type		Fixed				Region of Interest	Off/On (4 Zone)
Mount Type		Board-in				Electronic Image Stabilization	N/A
Focal Length		2.8 mm, 3.6	mm, 6.0 mm			(EIS)	
Max. Aperture		F1.6				Smart IR	Support
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°				Defog	Support
Optical Zoom		N/A				Digital Zoom	N/A
Aperture Type		Fixed				Flip	0°/90°/180°/270°
Close Focus Distance		1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)			.47 ft)	Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	Off/On (4 Area, Rectangle)
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Audio	
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Compression	N/A
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Network	
Pan/Tilt/Rotat	ion					Ethernet	RJ-45 (10/100 Base-T)
		Pan: 0°-360°	; Tilt: 0°–90°; I	Rotation: 0°–3	360°	Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, SNMP, QoS, UPnP, NTP, ICMP, HTTPS, IGMP, 802.1x
Artificial Intell	igence					Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec,
Face Capture		Support face image capture				inter-operazint,	P2P
Perimeter Protec	tion	Tripwire, Intrusion (Human & Vehicle classification)				Streaming Method	Unicast/Multicast
People Counting		counting; Su	crossing/Reg pport 4 acces areas indeper	ses independ	ent	Max. User Access	20 Users
General Intelli	detection, 4	areas indeper	ident detection	on .	Edge Storage	NAS FTP Micro SD card 256 GB	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		Object Abandoned/Missing				Management Software	Smart PSS, DSS, P2P
Video						Smart Phone	iOS, Android
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)				Certifications	
Streaming Capab	ility	3 Streams	,				CE-LVD: EN60950-1
Resolution		2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)				Certifications	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

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)	
Power Consumption	<8.4W	

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/10%RH–95%RH
Strorage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")
Net Weight	0.815 kg (1.80 lb)
Gross Weight	1.08 kg (2.38 lb)

Accessories

Optional:







PFA130-E Junction box

PFA152-E Pole Mount

PFA151 Corner Mount

Junction Mount	Pole Mount	Corner Mount
PFA130-E	PFA130-E+ PFA152-E	PFA130-E + PFA151

Ordering Information Туре Part Number Description 4MP WDR IR Bullet AI Network Camera, DH-IPC-HFW5442TP-S WDR, PAL DH-IPC-4MP WDR IR Bullet AI Network Camera, HFW5442TN-S WDR, NTSC 4MP camera 4MP WDR IR Bullet AI Network Camera, IPC-HFW5442TP-S WDR, PAL 4MP WDR IR Bullet AI Network Camera, IPC-HFW5442TN-S WDR, NTSC PFA130-E Junction box Accessories PFA152-E Pole Mount (optional) PFA151 Corner Mount

Dimensions (mm[inch])





