

DH-IPC-HFW5442T-S

4MP Pro Al IR Bullet Network Camera



System Overview

Pro Al series contains Face Detection, 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 Detection

Face Detection 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.

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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- \cdot 25/30 fps@2688 × 1520, 50/60 fps@1080P (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,IK10











Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ 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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Technical Sp	ecification						Streaming Capability	3 Streams
Camera								2500 4520/2550 4440/2204 4205/40000
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS					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)
Effective Pixels		2688 (H) × 1520 (V)						
RAM/ROM		512 MB/128 MB				Frame Rate	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)	
Scanning System		Progressive						Sub Stream: D1 (1 fps=25/30 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					D1 (1 fps-50/60 fps)	
Minimum Illumination		0.002 Lux@F1.6						Third Stream: 1080P (1 fps–16 fps)
IR Distance		Distance up to 50 m (164 ft)				Bit Rate Control	CBR/VBR	
IR On/Off Control		Auto/Manual				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps	
IR LEDs	IR LEDs		4				Day/Night	Auto (ICR)/Color/B/W
Lens						BLC Mode	BLC/HLC/WDR (140 dB)	
Lens Type		Fixed-focal					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type		Board-in				Gain Control	Auto/Manual	
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				Noise Reduction	3D DNR	
Max. Aperture		F1.6				Motion Detection	Off/On (4 Zone, Rectangle)	
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°				Region of Interest	Off/On (4 Zone)	
Aperture Type		Fixed				Electronic Image Stabilization (EIS)	N/A	
Close Focus Dista	ance	1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)				Smart IR	Yes	
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
DORI Distance	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)		Flip	0°/90°/180°/270°
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)		Mirror	Off/On
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)		Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rotat	ion						Audio	
Pan/Tilt/Rotation	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Compression	N/A	
Artificial Intell	igence						Network	
Face Detection		Support face	Support face image capture				Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protec	tion	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering)				Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;STFP;DHCP;DNS;DDNS;QoS;UPP	
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				Interoperability	;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P	
General Intelligence						Streaming Method	Unicast/Multicast	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Max. User Access	20 Users	
General Intelligence		Object Abandoned/Missing				Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB	
Heat Map		Yes						
Video						Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Compression		H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				Management Software	Smart PSS, DSS, DMSS	
Smart Codec		Yes				Smart Phone	iOS, Android	

Certifications

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
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Interface

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)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

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)

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

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	

Dimensions (mm[inch])





