

DH-IPC-HFW5241T-SE

2MP Pro Al IR Bullet Network Camera





- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 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, 8.0 mm, 12.0 mm optional)
- · Max. IR LEDs Length 80 m
- · Micro SD memory, IP67, IK10











System Overview

Pro Al series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. 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.

Protection (IP67, IK10, 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) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Compression	Technical Sp	ecification					Video	
Map							Compression	
Signature	Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			VIS™ CMOS	Smart Codec	
Second System	Effective Pixels		1920 (H) × 1080 (V)				Streaming Capability	3 Streams
Minimum Min							Resolution	× 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/
Minimum Illuminasion Minimum Illuminasio	7 /							
Bit Distance up to 80 m 262 ft Bit Rate Control C8A/V8R Bit Rate H266-32 Rapp-8193 Rapp Bit Rate H266-32 Rapp-8193 Rapp-8193 Rapp Bit Rate H266-32 Rapp-8193 Rapp Rapp Rapp Rapp Rapp Rapp Rapp Rap	·						Frame Rate	
Bit Rate Control CBR/VBR Canal CBR/VBR CBR/VBR Canal CBR/VBR Canal CBR/VBR Canal CBR/VBR CBR/VBR Canal CBR/VBR Canal CBR/VBR Canal CBR/VBR CBR							rialile Nate	
Rit Dis							Rit Rate Control	
Lens	IR On/Off Control							
Entrol Fixed Fixed Fixed Fixed Stard St	IR LEDs		4					
Mount Type Board in Focal Length 2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm Max. Aperture 61.8 (2.8 mm-8.0 mm), 12.0 (12.0 mm) Max. Aperture Angle of View H: 106', V: 57'/H: 87', V: 46'/H: 53', V: 30'V H: 41', V: 23'/H: 26', V: 14' Aperture Type Fixed Aperture Type Fixed On m(1.97'ft)/1.2 m(3.94'ft)/2.5 m (8.20'ft)/ Aperture Type Lens Detect Observe Recognize Jenstify Bellow (1.57'ft)/1.2 m(3.94'ft)/2.5 m (8.20'ft)/ Amilation Jame John (2.8 mm) John (2.7 m) John (2.7 m) John (2.7 m) Motion Detection Off/On (4.7 ne, Rectangle) Motion Detection Off/On (4.7 ne, Rectangle) Region of Interest Off/On (4.7 ne, Rectangle) Region of Interest Off/On (4.7 ne, Rectangle) Flectronic Image Stabilization (IES) Smart IR Yes Defog Yes Filip O'30'7/180'7/270' Milror Off/On Filip O'30'7/180'7/270' Milror Off/On (4.4 ne, Rectangle) Motion Detection N/A Smart IR Yes Defog Yes Filip O'30'7/180'7/270' Milror Off/On (4.4 ne, Rectangle) Milror Off/On (4.4 ne, Rectangle) Audio Compression N/A Network Fithernet Ri-54 (10/100 Base-T) Protocol Artificial Intelligence Feac Detection Tripwire, Intrusion (Recognition of vehicle and people, Sathoring, Beginn Allowed on the protocol pathoring offection, parking oetection, and people gathering Protocol Tripwire, Intrusion (Recognition of vehicle and people) Sathoring, Beginn Allowed on the protocol pathoring offection, parking oetection, and people gathering Counting Support A accesses independent detection, parking oetection and people gathering Counting Support A accesses independent detection, parking oetection, and people gathering Counting Support A accesses independent detection, parking oetection, parki	Lens						Day/Night	Auto(ICR)/Color/B/W
Focal Length	Lens Type		Fixed-focal				BLC Mode	BLC/HLC/WDR (120 dB)
Max. Aperture Fi.6 (2.8 mm - 8.0 mm), Fi.2 (12.0 mm) Noise Reduction 30 DNR Angle of View H. 105', V. 57'Mt. 827', V. 46'Mt. 53', V. 30' H. 41', V. 23'Mt. 26', V. 14' Region of Interest Off/On (4 Zone, Rectangle) Aperture Type Fixed Fixed Off (1.2 m (3.94 ft)/2.5 m (8.20 ft) / 4 m (3.312 ft)/8.6 m (28.22 ft) Aperture Type Detect Observe Recognize Identify Mm (3.312 ft)/8.6 m (28.22 ft) Aperture Type Defect Observe Recognize Identify Defeg Yes 2.8 mm 39m(128ft) 15m(49ft) 8m(26ft) 4m(13ft) 3.6 mm 55m(380ft) 22m(72ft) 11m(36ft) 6m(20ft) 8 mm 110m(361ft) 44m(144ft) 22m(72ft) 11m(36ft) 12 mm 12m(54ft) 69m(226ft) 35m(115ft) 7m(56ft) Par/Titl/Rotation Par/Titl/Rotation Recognize Maximum (Recognize of Meximum (Recognize of Mexi	Mount Type		Board-in				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Angle of View	Focal Length		2.8 mm, 3.6 r	nm, 6.0 mm, 8	3.0 mm, 12.0	mm	Gain Control	Auto/Manual
Aperture Type Fixed Close focus Distance An (13.12 ftt)/3.6 m (28.12 ftt) Lens Detect Deserve Recognize Identify 2.8 mm 39m(128ft) 15m(49ft) 8m(26ft) 4m(13ft) 3.6 mm 55m(180ft) 22m(72ft) 11m(36ft) 6m(20ft) Basin 272ft) 33m(108ft) 17m(56ft) 8m(26ft) Basin 110m(36ft) 44m(144ft) 22m(72ft) 11m(36ft) 6m(20ft) Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan: 0"-360"; Tilt: 0"-90"; Rotation: 0"-360" Parimeter Protection Perimeter Protection Perimeter Protection Perimeter Protection People Counting Support Line crossing/Region/Queueing people counting detection, a areas independent detection, pradices Event Trigger Motion detection, Video tampering , Seene changing, Network disconnection, in Paddress conflict, Illegal Access, Storage anomaly Management Software Management Software Place Simple Simpl	Max. Aperture		F1.6 (2.8 mm-8.0 mm), F2.0 (12.0 mm)				Noise Reduction	3D DNR
Aperture Type Fixed	Angle of View					0°/	Motion Detection	Off/On (4 Zone, Rectangle)
Close Focus Distance O. 6 m (1.97 tt)/1.2 m (3.94 ts)/2.5 m (8.20 tt)/ 4 m (13.12 tt)/8.6 m (28.22 tt) Permeter Protection Perimeter Protection People Counting Ceneral Intelligence Lens Detect Observe Recognize Identify Am (1.97 tt)/1.2 m (3.94 ts)/2.5 m (8.20 tt)/ 4 m (1.97 tt)/1.2 m (1.94 t	Aperture Type		Fixed				Region of Interest	Off/On (4 Zone)
Lens Detect Observe Recognize Identify	Close Focus Distance					0 ft)/	=	N/A
DORI Distance Simma Sm(128ft) 15m(49ft) 2m(72ft) 11m(36ft) 6m(20ft) Mirror Off/On		Lens	Detect	Observe	Recognize	Identify	Smart IR	Yes
Seminary		2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Defog	Yes
Mirror Off/On		3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Flip	0°/90°/180°/270°
Record Recognition of vehicle and people, fast moving, lottering detection, yarking detection, yarking detection, video tampering, Scene changing, Network disconnection, ip Paddress conflict, illegal Access, Storage anomaly Recognition Recognition Recognition of vehicle and detection, video tampering, Scene changing, Network disconnection, ip Paddress conflict, illegal Access, Storage anomaly Privacy Masking Off/On (4 Area, Rectangle)	DORI Distance						Mirror	Off/On
Pan/Tilt/Rotation Pan/Tilt/Rotation Pan: 0'-360'; Tilt: 0'-90'; Rotation: 0'-360' Network							Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan: 0'-360'; Tilt: 0'-90'; Rotation: 0'-360' Artificial Intelligence Ethernet RJ-45 (10/100 Base-T) Ethernet RJ-45 (10/100 Base-T) Protocol Face Detection Support face image capture Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering People Counting Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly Compression Network R1-45 (10/100 Base-T) Protocol FRIMP;SMTP;HTIP;STTP;DHCP;DMS;DDMS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPDe;802.1x;SNMP Interoperability Streaming Method Unicast/Multicast Max. User Access 20 Users Edge Storage NAS;FTP;SFTP Micro SD card 256 GB 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, DMSS							Audio	
Pan/Tilt/Rotation Range Pan: 0'-360'; Tilt: 0'-90'; Rotation: 0'-360' Artificial Intelligence Ethernet RJ-45 (10/100 Base-T) Ethernet RJ-45 (10/100 Base-T) Protocol Protocol Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people, fast moving, loitering detection, parking detection, and people gathering Support Line crossing/Region/Queueing people counting: Support 4 accesses independent detection General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Network RJ-45 (10/100 Base-T) Protocol IPv4;IPv6;HTTP;HTTP;STTP;DHCP;DNS;DDNS;Qos;UPnP ;RTMP;SMTP;MUlticast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP Interoperability Streaming Method Unicast/Multicast Max. User Access 20 Users Edge Storage NAS;FTP;SFTP Micro SD card 256 GB Web Viewer IE (versions newer than IEB), Chrome, Firefox, Safari (versions newer than Safari 12) General Intelligence Object Abandoned/Missing Management Software Smart PSS, DSS, DMSS	Pan/Tilt/Rota		172111(50411)	09111(22011)	35111(11311)	1/111(3611)	Compression	N/A
Face Detection Support face image capture Protocol Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Support Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection Max. User Access Edge Storage NAS;FTP;SFTP Micro SD card 256 GB 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, DMSS			Pan: 0°-360°;	Tilt: 0°–90°; R	otation: 0°–3	60°	Network	
Face Detection Support face image capture Protocol Pr	Artificial Intel	ligence					Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection, parking detection and people gathering Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection General Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly Management Software Tripwire, intrusion (Recognition of vehicle and people detection, parking detection, parking detection, parking detection, parking detection, parking detection, parking Genetec, P2P Streaming Method Unicast/Multicast Max. User Access 20 Users Edge Storage NAS;FTP;SFTP Micro SD card 256 GB 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, DMSS	_		Support face image capture				Protocol	;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP
People Counting Counting; Support 4 accesses independent detection Max. User Access 20 Users General Intelligence Edge Storage Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Max. User Access 20 Users NAS;FTP;SFTP Micro SD card 256 GB 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, DMSS	Perimeter Protection		people), fast moving, loitering detection, parking				Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone,
detection, 4 areas independent detection Max. User Access 20 Users Max. User Access NAS;FTP;SFTP Micro SD card 256 GB 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, DMSS							Streaming Method	Unicast/Multicast
Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly Web Viewer 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, DMSS	People Counting						Max. User Access	20 Users
Event Trigger 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, DMSS	General Intell	-			200	Edge Storage		
	Event Trigger		changing, Network disconnection , IP address			ldress	Web Viewer	
Heat Map Yes Smart Phone iOS, Android	General Intelligence		Object Abandoned/Missing				Management Software	Smart PSS, DSS, DMSS
	Heat Map		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	<8.3W

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- HFW5241TP-SE	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
2MP camera	DH-IPC- HFW5241TN-SE	2MP Pro AI IR Bullet Network Camera, WDR, NTSC		
	IPC-HFW5241TP-SE	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
	IPC-HFW5241TN- SE	2MP 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



LR1002 ePoE Over Coax Converter

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

Dimensions (mm[inch])





