

DH-IPC-HFW5241T-S

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.



Technical Specification				Video			
Camera			Compression	H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			RVIS™ CMOS	Smart Codec	Yes
Effective Pixels		1920 (H) × 1080 (V)				Streaming Capability	3 Streams
RAM/ROM		512 MB/128 MB				Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/
Scanning System	Scanning System		Progressive			nesolution	CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Main Stream: 1080P (1 fps-25/30 fps)
Minimum Illumination		0.002 Lux@F1.6				Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)
IR Distance		Distance up to 80 m (262 ft)					Third Stream: 1080P (1 fps–6 fps)
IR On/Off Contro	ol	Auto/Manual				Bit Rate Control	CBR/VBR
IR LEDs		4				Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps
Lens						Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal				BLC Mode	BLC/HLC/WDR (120 dB)
Mount Type		Board-in				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Focal Length		2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm			mm	Gain Control	Auto/Manual
Max. Aperture		F1.6 (2.8 mm-8.0 mm), F2.0 (12.0 mm)				Noise Reduction	3D DNR
Angle of View		H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°/ H: 41°, V: 23°/H: 26°, V: 14°			0°/	Motion Detection	Off/On (4 Zone, Rectangle)
Aperture Type		Fixed				Region of Interest	Off/On (4 Zone)
Close Focus Distance		0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)/ 4 m (13.12 ft)/8.6 m (28.22 ft)		Electronic Image Stabilization (EIS)	N/A		
	Lens	Detect	Observe	Recognize	Identify	Smart IR	Yes
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Defog	Yes
			, ,	. ,		Flip	0°/90°/180°/270°
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Mirror	Off/On
	6mm	83m(272ft)	33m(108ft)		8m(26ft)	Privacy Masking	Off/On (4 Area, Rectangle)
	8mm		44m(144ft)		11m(36ft)	Audio	
D /T!l- /D-+-	12mm	172m(564ft)	69m(226ft)	35m(115ft)	17m(56ft)	Compression	N/A
Pan/Tilt/Rota		Don. 0° 200°.	Til+. 0° 00°. D	latation. 0° 3	0C0°	Network	
Pan/Tilt/Rotatio	_	Pall: 0 –360 ;	Tilt: 0°-90°; R	iotation: 0 –3	800	Ethernet	RJ-45 (10/100 Base-T)
Artificial Intelligence Face Detection		Support face image capture				Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DMS;DDNS;QoS;UPnP
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking				Interoperability	;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
		detection and people gathering Support Line crossing/Region/Queueing people			people	Streaming Method	Unicast/Multicast
People Counting		counting; Support 4 accesses independent detection, 4 areas independent detection			ent	Max. User Access	20 Users
General Intell	General Intelligence					Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			ddress	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
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

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				
Type	Part Number	Description		
	DH-IPC- HFW5241TP-S	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
2MP camera	DH-IPC- HFW5241TN-S	2MP Pro Al IR Bullet Network Camera, WDR, NTSC		
	IPC-HFW5241TP-S	2MP Pro Al IR Bullet Network Camera, WDR, PAL		
	IPC-HFW5241TN-S	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

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

Dimensions (mm[inch])





