

DH-IPC-HFW5241T-ASE

2MP 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 AI series contains Face Capture, 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 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.

- · 1/2.8" 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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 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.

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.

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



Technical Specification				Video			
Camera			Compression	H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)			
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS			KVIS™ CMOS	Streaming Capability	3 Streams
Effective Pixels		1920 (H) × 10	1920 (H) × 1080 (V)			Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)
RAM/ROM		512 MB/128 MB					
Scanning System		Progressive	Progressive				Main Stream: 1080P (1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Frame Rate	Sub Stream: D1 (1 fps-25/30 fps)
Minimum Illumination		0.002 Lux@F1.6					Third Stream: 1080P (1 fps–6 fps)
IR Distance		Distance up to 80 m (262 ft)				Bit Rate Control	CBR/VBR
IR On/Off Control		Auto/Manual				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-7424 Kbps
IR LEDs		4				Day/Night	Auto(ICR)/Color/ B/W
Lens						BLC Mode	BLC/HLC/WDR (120 dB)
Lens Type		Fixed				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, 8.0 mm, 12.0 mm			mm	Noise Reduction	3D DNR
Max. Aperture		F1.6 (2.8 mm-8.0 mm), F2.0 (12.0 mm)				Motion Detetion	Off/On (4 Zone, Rectangle)
Angle of View		H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°/ H: 41°, V: 23°/H: 26°, V: 14°			0°/	Region of Interest	Off/On (4 Zone)
Optical Zoom		N/A				Electronic Image Stabilization (EIS)	N/A
Aperture Type		Fixed			Smart IR	Support	
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)			0 ft)/	Defog	Support
	Lens	Detect	Observe	Recognize	Identify	Digital Zoom	N/A
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Flip	0°/90°/180°/270°
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Mirror	Off/On
DORI Distance	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Privacy Masking	Off/On (4 Area, Rectangle)
	8mm	110m(361ft)	44m(144ft)	22m(72ft)	11m(36ft)	Audio	
	12mm	172m(564ft)	69m(226ft)	35m(115ft)	17m(56ft)	Compression	G.711a, G.711Mu, G.726, AAC, G.723
Pan/Tilt/Rotati	ion					Network	
Pan/Tilt/Rotation	n Range	Pan: 0°-360°	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			Ethernet	RJ-45 (10/100 Base-T)
Artificial Intelligence				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		
Face Capture		Support face image capture				Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec,
Perimeter Protection Tripwire, Intrusion (Human & Vehicle classification)			ssification)	,	P2P Unicast/Multicast		
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent				Streaming Method Max. User Access	20 Users
reopie Counting		detection, 4 areas independent detection					NAS
General Intelli	gence					Edge Storage	FTP Micro SD card 256 GB
Success Triangue		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)
Event Trigger						Management Software	Smart PSS, DSS, P2P
General Intelliger	nce	Object Abandoned/Missing			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
	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	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<8.7W

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)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW5241TP-ASE	2MP WDR IR Bullet AI Network Camera, WDR, PAL			
2MP camera	DH-IPC- HFW5241TN-ASE	2MP WDR IR Bullet AI Network Camera, WDR, NTSC			
zivii cumera	IPC-HFW5241TP- ASE	2MP WDR IR Bullet AI Network Camera, WDR, PAL			
	IPC-HFW5241TN- ASE	2MP WDR IR Bullet AI Network Camera, WDR, NTSC			
Accessories (optional)	PFA130-E	Junction box			
	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])





