

DH-IPC-HFW5241T-AS-LED

2MP WDR Bullet AI 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 (Electronic), 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 optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. LEDs Length 25 m
- · Micro SD memory, IP67











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.

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.

Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With two warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. It also provides visible By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

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 Spe	ecification					Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/
Camera				Resolution	× 720)/D1 (704 × 576) 704 × 480)/ VGA (640 × 480)/ CIF (352 × 288/352 × 240)		
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				Frame Rate	Main Stream: 1080P (1 fps-25/30 fps)
Effective Pixels		1920 (H) × 1080 (V)					Sub Stream: D1 (1 fps-25/30 fps)
RAM/ROM		512 MB/128 MB					Third Stream: 1080P (1 fps-6 fps)
Scanning System		Progressive				Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-7424 Kbps
Minimum Illumination		0.002 Lux@F1.6				Day/Night	Day/Night: Electronic Auto/Color/B/W
LED Distance		Distance up to 25 m (82 ft)				BLC Mode	BLC/HLC/WDR (120 dB)
LED On/Off Control		Auto/Manual				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
LEDs		2				Gain Control	Auto/Manual
Lens						Noise Reduction	3D DNR
Lens Type		Fixed				Motion Detetion	Off/On (4 Zone, Rectangle)
Mount Type		Board-in				Region of Interest	Off/On (4 Zone)
Focal Length		2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm				Electronic Image Stabilization (EIS)	N/A
Max. Aperture		F1.6				Smart IR	Support
Angle of View		H: 106°, V: 57 V: 23°	7°/H: 87°, V: 46	5°/H: 53°, V: 3	0°/H: 41°,	Defog	Support
Optical Zoom		N/A				Digital Zoom	N/A
Aperture Type		Fixed				Flip	0°/90°/180°/270°
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)				Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	Off/On (4 Area, Rectangle)
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Audio	
DORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Compression	G.711a, G.711Mu, G.726, AAC, G.723
	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Network	
	8mm	110m(361ft)	44m(144ft)	22m(72ft)	11m(36ft)	Ethernet	RJ-45 (10/100 Base-T)
Pan/Tilt/Rotati	ion					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
Pan/Tilt/Rotation	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Interoperability	ONVIF (Profile S/Profile G), CGI, Milstone, Genetec,
Artificial Intelli	igence						P2P
Face Capture		Support face	image captur	e		Streaming Method	Unicast/Multicast
Perimeter Protecti	ion	Tripwire, Intrusion (Human & Vehicle classification)				Max. User Access	20 Users NAS
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection				Edge Storage	FTP Micro SD card 256 GB
General Intelligence						Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
_		Motion detection, Video tampering , Scene				Management Software	Smart PSS, DSS, P2P
Event Trigger		changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Smart Phone	iOS, Android
General Intelligen	nce	Object Aban	doned/Missin	g		Certifications	
Video							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Compression		H.265+, H.265, H.264+, H.264, H.264B, H.264H, MJPEG (sub stream)			Н.264Н,	Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Streaming Capability		3 Streams					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	<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 Type Part Number Description DH-IPC-2MP WDR Bullet AI Network Camera, HFW5241TP-AS-WDR, PAL LED DH-IPC-2MP WDR Bullet AI Network Camera, HFW5241TN-AS-WDR, NTSC 2MP camera LED IPC-HFW5241TP-2MP WDR Bullet AI Network Camera, AS-LED IPC-HFW5241TN-2MP WDR Bullet Al Network Camera, WDR, NTSC AS-LED PFA130-E Junction box Accessories PFA152-E Pole Mount (optional) PFA151 Corner Mount

Accessories

Optional:



Junction box









PFA151 Corner Mount

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

Dimensions (mm[inch])





