

DH-IPC-HFW5442T-AS-LED

4MP WDR 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 Al 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

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
- · 25/30fps@2688×1520
- · WDR(120dB), Day/Night(Electronic), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. LEDs Length 17m
- · Micro SD memory, IP67











Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/1.8" 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	cification					
Camera						Frame Rate
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS)S	
Effective Pixels	2688(H) x 1520(V)				Bit Rate Control	
RAM/ROM	512MB/128N	ИВ			Bit Rate	
Scanning System		Progressive				Day/Night
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				,, 0
Minimum Illumination		0.0016Lux/F1.6 (Color,1/3s,30IRE) 0.015Lux/F1.6 (Color,1/30s,30IRE)				BLC Mode
LED Distance	Distance up t		,		White Balance	
LED On/Off Contro	ol	Auto/ Manua	ıl			Gain Control
LEDs		2				Noise Reduction
Lens					Motion Detetion	
Lens Type	Fixed				Region of Interest Electronic Image Stabilization	
Mount Type	Board-in				(EIS)	
Focal Length		2.8mm,3.6mm,6mm				Smart IR
Max. Aperture		F1.6				Defog
Angle of View		H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°				Digital Zoom
Optical Zoom		N/A				Flip
Aperture Type		Fixed				Mirror
Close Focus Distance		1.3m(4.27ft)/1.9m(6.23t)/3.8m(12.47ft)				Privacy Masking
	Lens	Detect	Observe	Recognize	Identify	Audio
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	Compression
DORI Distance	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	Network
	6mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	Ethernet
Pan/Tilt/Rotation		0.00	Til. 60. 0 - 0		°	Protocol
Pan/Tilt/Rotation	· ·	Pan:0 ~360°;	Tilt:0°~90°; R	otation:0 ^{-~} 36	oU .	Interoperability
Artificial Intellig		Trinwire Intr	usion/Human	& Vehicle cla	ssification	Streaming Method
	211		Tripwire, Intrusion(Human & Vehicle classification)			Max. User Access
People Counting General Intelligence		Line crossing people counting, Region people counting				Edge Storage
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly				Web Viewer
			Object Abandoned/Missing			Management Software
Video		,	,=///	-		Smart Phone
H 265+/H 265/H 264+/H 264/H 264R/H 264H/			Certifications			
MJPEG(sub s			о т, т20 4 0/ П	.2011/		
Streaming Capability Resolution		3 Streams 2688×1520/2304×1296/1080P(1920×1080)/1.3M(1 280×960)/720P(1280×720)/D1(704×576/704×480)/				Certifications
VGA(640×480)/CIF(352×288/352×240)				s8/352×240)		

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.2W 6.4W(IR on) PoE:2.8W 7.4W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) /10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	244.1mm×79.0mm×75.9mm (9.61"×3.11"×2.99")
Net Weight	0.815Kg (1.80lb)
Gross Weight	1.08Kg (2.38lb)

Ordering Information			
Type	Part Number	Description	
	DH-IPC- HFW5442TP-AS- LED	4MP WDR Bullet Al Network Camera, WDR,PAL	
4MP camera	DH-IPC- HFW5442TN- AS-LED	4MP WDR Bullet AI Network Camera, WDR,NTSC	
	IPC-HFW5442TP- AS-LED	4MP WDR Bullet Al Network Camera, WDR,PAL	
	IPC-HFW5442TN- AS-LED	4MP WDR Bullet Al 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)





