

# 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 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 and vandal resistant to IK10 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 STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(Electronic), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- $\cdot$  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 Sp	ecification						Resolution	2688×1520/2304×12 280×960)/720P(1280
Camera								VGA(640×480)/CIF(3
Image Sensor		1/1.8" 4Mega	1/1.8" 4Megapixel progressive scan CMOS					Main Stream: 2688×
Effective Pixels		2688(H) x 10	2688(H) x 1080(V)				Frame Rate	Sub Stream: D1(1~25 Third Stream: 1080P
RAM/ROM		512MB/128MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive						H.264: 32~ 8192Kbps
		Auto/Manua	Auto/Manual, 1/3~1/100000s				Bit Rate	H.265: 19~ 8192Kbps
Electronic Shutter Speed							Day/Night	Day/Night: Electronic Auto/ Color / B/W
Minimum Illumination		0.001653Lux/F1.6 ( Color,1/3s,30IRE) 0.01482Lux/F1.6 ( Color,1/30s,30IRE)					BLC Mode	BLC / HLC / WDR(12
LED Distance			2.8mm:Distance up to 8m (26ft) 3.6mm:Distance up to 11m (36ft)				White Balance	Auto/Natural/Street
LED DISTAILCE			ce up to 17m (				Gain Control	Auto/Manual
ED On/Off Cont	rol	Auto/ Manua	ıl				Noise Reduction	3D DNR
_EDs		2					Motion Detetion	Off / On (4 Zone, Re
ens							Region of Interest	Off / On (4 Zone)
∟ens Type		Fixed					Electronic Image Stabilization (EIS)	Support
Nount Type		Board-in					Smart IR	Support
Focal Length		2.8mm,3.6m	2.8mm,3.6mm,6mm				Defog	Support
Лах. Aperture		F1.6	F1.6				Digital Zoom	N/A
Angle of View		H: 113°, V:60	H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°				Flip	0°/90°/180°/270°
ptical Zoom		N/A	N/A				Mirror	Off / On
Aperture Type		Fixed					Privacy Masking	Off / On (4 Area, Re
ose Focus Dista	ance	0.6m(1.97ft)	/1.2m(3.94ft),	/2.5m(8.20ft)			Audio	
	Lens	Detect	Observe	Recognize	Identify		Compression	G.711a/ G.711Mu/
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)		Network	
ORI Distance	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)		Ethernet	RJ-45 (10/100Base-
	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)		Protocol	HTTP; TCP; ARP; RT FTP; DHCP; DNS; DE
an/Tilt/Rotat	ion						3.000.	UPnP;NTP
an/Tilt/Rotation	n Range	Pan:0°~360°;	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Interoperability	ONVIF(Profile S/Pro CGI,Milstone,Gene
rtificial Intell	igence						Streaming Method	Unicast / Multicast
erimeter Protect		Tripwire, Intrusion(Human & Vehicle classification)					Max. User Access	20 Users
People Counting		Line crossing people counting, Region people counting, Loitering filter					Edge Storage	NAS FTP Mirco SD card 2566
General Intelli	gence						Web Viewer	IE(versions newer the Firefox, Safari(versions)
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Management Software	Smart PSS, DSS, P2I
General Intelligence		Object Abandoned/Missing					Smart Phone	iOS, Android
/ideo							Certifications	
Compression		H.265/H.264	/H.264B/H.26	64H/MJPEG(su	b stream)			CE-LVD:EN60950-1 CE-EMC:Electromag
Streaming Capab	ility	3 Streams					Certifications	2014/30/EU FCC:47 CFR FCC Part
capan		5 Streums					ca. emedicolis	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 5VDC 1 channel Out: 300mA 12VDC

# Electrical

Power Supply	DC12V, 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 AI 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 AI Network Camera, WDR,NTSC		
	PFA130-E	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
, , ,	PEΔ151	Corner Mount		

# Accessories

# Optional:







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)





