

DH-IPC-HFW5541T-AS-PV

5MP 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

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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@2592×1944
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm, 8mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67











Active Deterrence

Active deterrence is to warn off intruders actively with white light and siren even before users are aware of the incidence. Once an intursion is detected, the white light will turn on and the siren will buzzer to alert the intruder. The white light can be set to Normally on or Flash, the content of siren is configurable.

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							Main Stream: 2592×1944(1~20fps)
Camera							Frame Rate	Sub Stream: D1(1~20/30fps)
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS						Third Stream: 1080P(1~13fps)
Effective Pixels		2592(H) x 1944(V)					Bit Rate Control	CBR/VBR
RAM/ROM		512MB/128N	512MB/128MB				Bit Rate	H.264: 32~8192Kbps H.265: 19~8192Kbps
Scanning System	1	Progressive	Progressive				Day/Night	Auto(ICR) / Color / B/W
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					BLC Mode	BLC / HLC / WDR(120dB)
Minimum Illumination		0.0048Lux/F1.6 (Color,1/3s,30IRE) 0.043Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR Distance		Distance up to 52m (115ft)					Gain Control	Auto/Manual
IR On/Off Contro	ol	Auto/ Manual					Noise Reduction	3D DNR
IR LEDs			3				Motion Detetion	Off / On (4 Zone, Rectangle)
Lens							Region of Interest	Off / On (4 Zone)
Lens Type		Fixed	Fixed				Electronic Image Stabilization (EIS)	N/A
Mount Type		Board-in	Board-in				Smart IR	Support
Focal Length		2.8mm,3.6m	m,6mm,8mm				Defog	Support
Max. Aperture		F1.6(2.8mm~6mm),F2.0(8mm)				Digital Zoom	N/A	
Angle of View		H: 102°, V:71	°/H: 84°, V:58°,	/H: 51°, V:37°,	/H: 38°,V:28°		Flip	0°/90°/180°/270°
Optical Zoom		N/A				Mirror	Off / On	
Aperture Type		Fixed					Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Distance		0.9m(2.95ft)/1.6m(5.25ft)/3.1m(10.17ft)/4.5m(1 4.73ft)			Audio			
	Lens	Detect	Observe	Recognize	Identify		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)		Network	
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)		Ethernet	RJ-45 (10/100Base-T)
	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)		Elleritet	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP;
Pan/Tilt/Rotat	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)		Protocol	FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS UPnP;NTP
Pan/Tilt/Rotation						Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P	
	_	Pan:0 *360 ;	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Streaming Method	Unicast / Multicast
Artificial Intell	Ü						Max, User Access	20 Users
Perimeter Protect		Tripwire, Intrusion(Human & Vehicle classification) Line crossing people counting, Region people counting					Edge Storage	NAS FTP
General Intelli	igence	counting						Mirco SD card 256GB
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
		conflict, Illegal Access, Storage anomaly Object Abandoned/Missing					Management Software	Smart PSS, DSS, P2P
General Intellige	nice	Object Aban	uoneu/Missin	Б			Smart Phone	iOS, Android
Video		H.265+/H.265/H.264+/H.264/H.264B/H.264H/					Certifications	
Compression	Compression		MJPEG(sub stream)					CE-LVD:EN60950-1
Streaming Capability Resolution		3 Streams 2592×1944/2688×1520/2304×1296/1080P(1920×1080)/1.3M(1280×960)/720P(1280×7 20)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				Certifications	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

Video Interface	N/A
Audio Interface	1/1 channel In/Out,Built-in Speaker
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:2.1W 7.2W(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- HFW5541TP-AS-PV	5MP WDR IR Bullet Al Network Camera, WDR,PAL		
5MP camera	DH-IPC- HFW5541TN-AS-PV	SMP WDR IR Bullet AI Network Camera, WDR,NTSC		
	IPC-HFW5541TP- AS-PV	5MP WDR IR Bullet AI Network Camera, WDR,PAL		
	IPC-HFW5541TN- AS-PV	5MP WDR IR Bullet AI 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)





