

DH-IPC-HFW5541T-S 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. Active Deterrence and Full Color camera are also in this series. 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.

- · 1/2.7" 5Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@5Mp(2592×1944)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 78m
- · Micro SD memory, IP67



Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

Protection(IP67, wide voltage)

The camera allows for ±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.



Pro Al Series | DH-IPC-HFW5541T-S

Technical Specification

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Video

Camera					
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS			
Effective Pixels		2592(H) x 1944(V)			
RAM/ROM		512MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.004807Lux/F1.6 (Color,1/3s,30IRE) 0.04359Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)			
IR Distance		2.8mm:Distance up to 23m (51ft) 3.6mm:Distance up to 34m (112ft) 6mm:Distance up to 47m (154ft) 8mm:Distance up to 56m (184ft) 12mm:Distance up to 78m (256ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		4			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm,3.6mm,6mm,8mm,12mm			
Max. Aperture		F1.6(2.8mm~8mm),F2.0(12mm)			
Angle of View			H: 102°, V:71°/H: 84°, V:58°/H: 51°, V:37°/ H: 38°,V:28°/H:25°,V:18°		
Optical Zoom		N/A			
Aperture Type		Fixed			
Close Focus Distance			0.9m(2.95ft)/1.6m(5.25ft)/3.1m(10.17ft)/4.5m(14.7 3ft)/10.3m(33.79ft)		
	Lens	Detect	Observe	Recognize	Identify
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
	6mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)
	8mm	160m(525ft)	64m(210ft)	32m(105ft)	16m(52ft)
	12mm	240m(787ft)	96m(315ft)	48m(157ft)	24m(79ft)
Pan/Tilt/Rotati	on				
Pan/Tilt/Rotation	Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			
Artificial Intelli	gence				
Perimeter Protection		Tripwire, Intrusion(Human & Vehicle classification)			
People Counting		Line crossing people counting, Region people counting,Loitering filter			
General Intelligence					
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			
General Intelligence		Object Abandoned/Missing			

Compression	H.265/H.264/H.264B/H.264H/MJPEG(sub stream)	
Streaming Capability	3 Streams	
Resolution	2592×1944/2688×1920/2304×1296/1080P(1920×1080)/1.3M(1280×960)/720P(1280×7 20)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)	
	Main Stream: 2592×1944(1~20fps)	
Frame Rate	Sub Stream: D1(1~25/30fps)	
	Third Stream: 1080P(1~3/8fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detetion	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image Stabilization (EIS)	Support	
Smart IR	Support	
Defog	Support	
Digital Zoom	N/A	
Flip	0°/90°/180°/270°	
Mirror	Off / On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	N/A	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP	
Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P	
Streaming Method	Unicast / Multicast	
Max. User Access	20 Users	
Edge Storage	NAS FTP Mirco SD card 256GB	
Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)	
Management Software	Smart PSS, DSS, P2P	
Smart Phone	iOS, Android	

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Certifications

Certifications	CE-LVD:EN60950-1 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	N/A	
RS485	N/A	
Alarm	N/A	
Electrical		
Power Supply	DC12V, PoE(802.3af)(Class 0)	
Power Consumption	DC12V:2.4W 7.1W(IR on) PoE:3W 8.4W(IR on)	
Environmental		
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH	
Strorage Conditions	+5° C $^{\rm \sim}$ +40° C (+41° F $^{\rm \sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH~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

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Туре	Part Number	Description		
5MP camera	DH-IPC- HFW5541TP-S	5MP WDR IR Bullet AI Network Camera, WDR,PAL		
	DH-IPC- HFW5541TN-S	5MP WDR IR Bullet Al Network Camera, WDR,NTSC		
	IPC-HFW5541TP-S	5MP WDR IR Bullet Al Network Camera, WDR,PAL		
	IPC-HFW5541TN-S	5MP WDR IR Bullet AI Network Camera, WDR,NTSC		
Accessories (optional)	PFA130-E	Junction box		
	PFA152-E	Pole Mount		
	PFA151	Corner Mount		

Accessories

Optional:



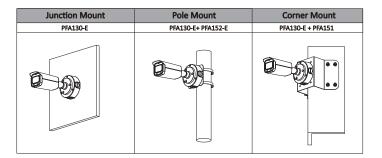




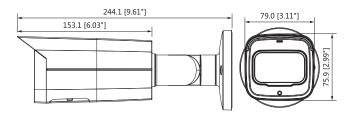
PFA130-E Junction box

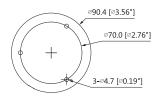
PFA152-E Pole Mount

PFA151 Corner Mount



Dimensions (mm/inch)







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