

DH-IPC-HFW5541E-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. 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 optional)
- · Max. IR LEDs Length 40m
- · 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 $\pm 30\%$ 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					
Camera						Frame Rate
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				
Effective Pixels		2592(H) x 194	14(V)			Bit Rate Control
RAM/ROM		512MB/128MB				
Scanning System		Progressive				Bit Rate
Electronic Shutte	er Speed	Auto/Manual, 1/3~1/100000s				Day/Night
·		0.0048Lux/F1.6 (Color,1/3s,30IRE)				BLC Mode
Minimum Illumination		0. 043Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)				White Balance
IR Distance		Distance up t	o 40m (131ft)			Gain Control
IR On/Off Contro	ol	Auto/ Manua	I			Noise Reduction
IR LEDs		2				Motion Detetion
Lens						Region of Interest
Lens Type		Fixed				Electronic Image Stabilization (EIS)
Mount Type		Board-in				Smart IR
Focal Length		2.8mm,3.6mi	m,6.0mm			Defog
Max. Aperture		F1.6				Digital Zoom
Angle of View		H: 102°, V:71°/H: 84°, V:58°/H: 51°, V:37°				Flip
Optical Zoom		N/A				Mirror
Aperture Type		Fixed				Privacy Masking
Close Focus Dist	ance	0.9m(2.95ft)/	1.6m(5.25ft)/	'3.1m(10.17ft		Audio
	Lens	Detect	Observe	Recognize	Identify	Compression
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)	·
DORI Distance	3.6mm	80m(262ft)	32m(105ft)		8m(26ft)	Network
	6.0mm				12m(39ft)	Ethernet
Pan/Tilt/Rota		120m(394ft) 48m(157ft) 24m(79ft) 12m(39ft)				Protocol
Pan/Tilt/Rotatio	o .	Pan:0°~360°;	Tilt:0°~90°; Ro	otation:0°~36	0°	Interoperability
Perimeter Prote		Tripwire, Intrusion(Human & Vehicle classification)				Streaming Method
						Max. User Access
People Counting Line crossing people counting, Region people counting, Loitering filter General Intelligence				Edge Storage		
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address				Web Viewer
		conflict, Illegal Access,Storage anomaly				Management Software
General Intelligence Object Abandoned/Missing				Smart Phone		
Video H.265+/H.265/H.264+/H.264/H.264B/H.264H/			264H/	Certifications		
Compression		MJPEG(sub st		о т у г г. 204 Б/ П.	.20711/	
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)/				Certifications

Pro Al Series | DH-IPC-HFW5541E-S

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.4W 5.7W(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,plastic
Dimensions	182.3mm×70.0mm×70.0mm (7.18"×2.76"×2.76")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.59Kg (1.30lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW5541EP-S	5MP WDR IR Bullet AI Network Camera, WDR,PAL		
5MP camera	DH-IPC- HFW5541EN-S	SMP WDR IR Bullet AI Network Camera, WDR,NTSC		
	IPC-HFW5541EP-S	5MP WDR IR Bullet AI Network Camera, WDR,PAL		
	IPC-HFW5541EN-S	5MP WDR IR Bullet AI Network Camera, WDR,NTSC		
	PFA121	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
, , ,	PFA151	Corner Mount		

Accessories

Optional:







PFA152-E Pole Mount



PFA151 Corner Mount

Junction Mount	Pole Mount	Corner Mount
PFA121	PFB121 + PFA152	PFB121 + PFA151

Dimensions (mm/inch)





