

DH-IPC-HF5541E-E

5MP Starlight 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. 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

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

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

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@5Mp(2592×1944)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD memory













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.

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.



Technical Specification			Main Stroom: 2502 v1044/18205
Camera			Main Stream: 2592 ×1944(1~20fps)
Image Sensor	1/2.7" 5Megapixel progressive scan CMOS	Frame Rate	Sub Stream: D1(1~20/25/30fps)
Effective Pixels	2592(H)x1944(V)		Third Stream: 1080P(1~13fps)
RAM/ROM	1GB/128MB	Bit Rate Control	CBR/VBR
		Bit Rate	H.264: 32~ 8192Kbps
Scanning System	Progressive		H.265: 19~ 8192Kbps
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	Day/Night	Auto(ICR) / Color / B/W
Minimum Illumination	N/A	BLC Mode	BLC / HLC / WDR(120dB)
LED Distance	N/A	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
LED On/Off Control	N/A	Gain Control	Auto/Manual
LEDs	N/A	Noise Reduction	3D DNR
Lens		Motion Detection	Off / On (4 Zone, Rectangle)
Lens Type	N/A	Region of Interest	Off / On (4 Zone)
Mount Type	c/cs	Electronic Image Stabilization	Support
Focal Length	N/A	(EIS)	
Max. Aperture	N/A	Smart IR	N/A
Angle of View	N/A	Defog	Support
Optical Zoom	N/A	Digital Zoom	N/A
Aperture Type Close Focus Distance	N/A N/A	Flip	0°/90°/180°/270°
Pan/Tilt/Rotation	N/A	Mirror	Off / On
· ·	NZA	Privacy Masking	Off / On (4 Area, Rectangle)
Pan/Tilt/Rotation Range	N/A	Audio	
Artificial Intelligence		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
Face Caputure	Support face image caputure	Compression	G./11a/ G./11Wid/ AAC/ G./20/G./25
	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/	Network	
Face Attributes	Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard	Ethernet	RJ-45 (10/100Base-T)
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification)	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;Q UPnP;NTP
		Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
People Counting	Line crossing people counting, Region people counting, Loitering filter	Streaming Method	Unicast / Multicast
Canaral Intelligence		Max. User Access	20 Users
General Intelligence Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal	Edge Storage	NAS FTP Micro SD card 256GB
General Intelligence	Access, Storage anomaly Object Abandoned/Missing	Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
-		Management Software	Smart PSS, DSS, P2P
Video	11 20 F/11 20 A/11 20 A F/11 20 A F/11 12 F A/11 A F/12 F	Smart Phone	iOS, Android
Compression	H.265/H.264/H.264B/H.264H/MJPEG(sub stream)	Certifications	
Smart Codec	Support H.265+/H.264+		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	1 port(BNC,1Vp-p,75Ω)
Audio Interface	1/1 channel In/Out
RS485	1 port
Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
Power Out	165mA 12VDC

Electrical

Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)
Power Consumption	DC12V:4.1W 9.2W(IR on) AC24V: 4.3W 8.7W(IR on) PoE:4.4W 9.2W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Storage 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	N/A
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	135.4mm*74.4mm*65.5mm(5.33"×2.93"×2.58")
Net Weight	0.53Kg (1.17lb)
Gross Weight	0.62Kg (1.37lb)

Ordering Information Туре Part Number Description 5MP Starlight Bullet AI Network Camera, DH-IPC-HF5541EP-E 5MP Starlight Bullet Al Network Camera, DH-IPC-HF5541EN-E 5MP camera 5MP Starlight Bullet AI Network Camera, IPC-HF5541EP-E 5MP Starlight Bullet Al Network Camera, IPC-HF5541EN-E PFB110W Ceiling Mount Accessories (optional) PFB121W Wall Mount

Accessories

Optional:



Wall Mount	Wall/Ceiling/Plane Mount
PFB121W	PFB110W

Dimensions (mm/inch)



