

DH-IPC-HF5541E-E

5MP Starlight Bullet AI Network Camera



- \cdot 1/2.7" 5Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2/1 Alarm in/out, 1/1 audio in/out (Built-in MIC)
- · Auto back focus(ABF)
- · Micro SD memory



System Overview

Pro AI series contains Face Detection, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy.

Functions

Face Detection

Face Detection 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 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.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.



Pro Al Series | DH-IPC-HF5541E-E

Technical Specification

Camera

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	Compression		
Streaming Capability 3 Streams	Smart Codec	Yes	
	Streaming Capability	3 Streams	

Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
	Third Stream: 1080P (1 fps-17 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR (120 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off/On (4 Zone, Rectangle)
Region of Interest	Off/On (4 Zone)
Electronic Image Stabilization (EIS)	Yes
Smart IR	N/A
Defog	Yes
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 Area, Rectangle)
Audio	
Compression	G.711a, G.711Mu, G.726, AAC, G.723
Network	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP; NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Streaming Method	Unicast/Multicast
Max. User Access	20 Users
Edge Storage	NAS;FTP;SFTP;Micro SD card 256 GB
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Smart Phone	iOS, Android
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

Pro Al Series | DH-IPC-HF5541E-E

Interface

1/1 channel In/Out, Built-in MIC		
1 port		
2 channel In: 5mA 5V DC 1 channel Out: 1A 30V DC/0.5A 50V AC		
165mA 12V DC		
DC 12V (±25%), AC 24V (±25%), PoE (802.3af) (Class 0)		
<9.2W		
Environmental		
-30° C to +60° C (-22° F to +140° F)/Less than 95% RH		
-30° C to +60° C (-22° F to +140° F)		
N/A		
N/A		
Metal		
135.4 mm × 74.4 mm × 65.5 mm(5.33" × 2.93" × 2.58")		
0.53 kg (1.17 lb)		
0.62 kg (1.37 lb)		

Ordering Information			
Туре	Part Number	Description	
DH-IPC-HF55 5MP camera IPC-HF5541E	DH-IPC-HF5541EP-E	5MP Starlight Bullet Al Network Camera, PAL	
	DH-IPC-HF5541EN-E	5MP Starlight Bullet AI Network Camera, NTSC	
	IPC-HF5541EP-E	5MP Starlight Bullet AI Network Camera, PAL	
	IPC-HF5541EN-E	5MP Starlight Bullet AI Network Camera, NTSC	
Accessories (optional)	PFB110W	Ceiling Mount	
	PFB121W	Wall Mount	

Accessories

Optional:



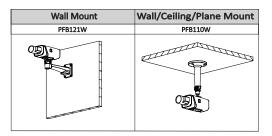




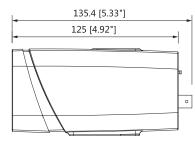
PFB110W Wall Mount

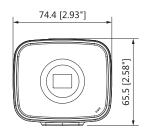
PFB121W Wall Mount

LR1002 ePoE Over Coax Converter



Dimensions (mm[inch])







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