

# IPC-HF5541E-E

5MP Starlight Bullet AI Network Camera





#### 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.

#### 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. The 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, The 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.

### 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. Face detection camera can extract six facial attributes and output the metadata for analysis.



## **Technical Specification**

Camera	
Image Sensor	1/2.7" 5Megapixel progressive scan CMOS
Effective Pixels	2592(H)x1944(V)
RAM/ROM	1GB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.009Lux/F1.7 ( Color,1/3s,30IRE) 0.084Lux/F1.7 ( Color,1/30s,30IRE) 0Lux/F1.7 (IR on)
LED Distance	N/A
LED On/Off Control	N/A
LEDs	N/A
Lens	
Lens Type	N/A
Mount Type	C/CS
Focal Length	N/A
Max. Aperture	N/A
Angle of View	N/A
Optical Zoom	N/A
Aperture Type	N/A
Close Focus Distance	N/A
Pan/Tilt/Rotation	
Pan/Tilt/Rotation Range	N/A
Artificial Intelligence	
Face Capture	Support face image capture
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender,Expression(Jolly/Surprise/Normal/Rage/Sad/ Disgusted/Confused/Frightened), Glasses,Mouth Mask, Moustache & Beard
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification)
People Counting	Line crossing people counting, Region people counting
General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly
General Intelligence	Object Abandoned/Missing
Video	
Compression	H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)
Streaming Capability	3 Streams
Resolution	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)

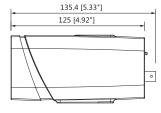


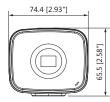
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Frame Rate	Main Stream: 2592×1944(1~20fps)	
	Sub Stream: D1(1~20/30fps)	
	Third Stream: 1080P(1~13fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detection	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image Stabilization (EIS)	Support	
Smart IR	N/A	
Defog	Support	
Digital Zoom	N/A	
Flip	0°/90°/180°/270°	
Mirror	Off/On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723	
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 Micro 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	

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	1 port(BNC,1Vp-p,75Ω)	
Audio Interface	1/1 channel In/Out,Built-in MIC	
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(±25%), AC24V(±25%), 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~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)	





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