

# DH-IPC-HFW8242E-Z4FD-IRA-LED

2MP Starlight Bullet 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

Face detection AI network camera is designed to focus on the detection of frontal human faces, it adopts high performance smart chip with deep learning technology, which can provide high precision face detection. This product supports real-time face detection, face optimized snapshot, face enhancement and face attributes analysis.

#### **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 gender, age, expression (happy, calm, surprised, sad, and angry), glasses, masks, and mustaches. Customers can acquire data of interest via face attributes statistics.

#### Metadata

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

# Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light

- · 1/1.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD memory, PoE+
- · Max. LED Length 10m
- · Support face capture, face attributes













performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness.

#### Wide dynamic range (WDR)

Embedded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.



Image Sensor	Technical S	pecification				
Effective Pixels	Camera					
Scanning System	Image Sensor		1/1.8" 2Megapixel progressive scan CMOS			
Progressive	Effective Pixels					
Electronic Shutter Speed Auto/Manual, 1/3~1/100000S  Minimum Illumination 0.002Lux/F1.53( Color, 1/3s, 30IRE) 0.01Lux/F1.53( Color, 1/2s, 30IRE 0.01Lux/F1.53( Color, 1/2s, 30IRE) 0.01Lux/F1.5	RAM/ROM					
Electronic Shutter Speed   Auto/Manual, 1/3~1/1000000S  Minimum Illumination   0.002Lux/F1.53( Color, 1/3s, 30 IRE)   0.01Lux/F1.53( Color, 1/3s, 30 IRE   0.01Lux/F1.53( Color, 1/3s, 1/2s,	Scanning System	m				
Minimum Illumination  0.002Lux/F1.53(Color,1/3s,30IRE) 0.01Lux/F1.53(Color,1/3s,30IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3s,10IRE) 0.01Lux/F1.53(Color,1/3sco			-			
LED Distance  Distance up to 10m(33ft)  LED On/Off Control  Auto/Manual  LEDs  6  Lens  Lens Type  Motorized  Mount Type  Board-in  Focal Length  Max. Aperture  F1.53  Angle of View  H: 40*~12.9* V:22*~7.2*  Optical Zoom  4x  Focus Control  Close Focus Distance  Motorized  Lens  Detect  Deserve  Recognize  Identify  DORI  Distance  T 320m(1050ft)  Pan/Tilt/Rotation  Pan/T	·		0.002Lux/F1.53( Color,1/3s,30IRE) 0.01Lux/F1.53( Color,1/30s,30IRE)			
LED On/Off Control  LEDs 6  Lens  Lens Type	S/N Ratio		More than 50dB			
LEDS  Lens Lens Type  Mount Type  Board-in Focal Length  Max. Aperture  Angle of View Optical Zoom  Ax Focus Control Close Focus Distance  Mutorized  Mutorized  Motorized  Motorized  Motorized  Close Focus Distance  Motorized  Lens Detect Detect Detect Detect Detect Distance T 320m(1050ft) 128m(420ft) 138m(420ft) 13m(420ft) 13m(420f	LED Distance		Distance up to 10m(33ft)			
Lens Type Motorized  Mount Type Board-in  Focal Length 8~32mm motorized  Max. Aperture F1.53  Angle of View H: 40°~12.9° V:22°~7.2°  Optical Zoom 4x  Focus Control Motorized  Close Focus Distance 3m(9.84ft)  DORI Distance 1 106m(348ft) 42m(138ft) 21m(69ft) 10m(32ft)  T 320m(1050ft) 128m(420ft) 64m(210ft) 32m(105ft)  Pan/Tilt/Rotation  Pan/Tilt/Rotation Range Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°  Artificial Intelligence  Face Caputure Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec Support H.265+/H.264+  Streaming Capability 3 Streams	LED On/Off Cor	ntrol	Auto/Manual			
Lens Type	LEDs		6			
Mount Type Focal Length  Max. Aperture F1.53  Angle of View Optical Zoom  Ax  Focus Control Close Focus Distance  Motorized  Lens Detect Detect Detect Detect Observe Recognize Identify T 320m(1050ft) 128m(420ft) 42m(210ft) 32m(105ft)  Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation Pan/Tilt/Rotation  Pan/Tilt/Rotation  Pan/Tilt/Rotation  Pan:0'~360'; Tilt:0'~90'; Rotation:0'~360'  Artificial Intelligence  Face Caputure  Support face image caputure  Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger  Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/720P(1280×720)	Lens					
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Angle of View  Optical Zoom  4x  Focus Control  Motorized  Close Focus Distance  3m(9.84ft)  DORI Distance  T  320m(1050ft)  128m(420ft)  Artificial Intelligence  Face Attributes  Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger  Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support 1.3M(1280x960)/720P(1280x720)	Focal Length		8~32mm motorized			
Optical Zoom  Focus Control  Motorized  Close Focus Distance  Motorized  Lens  Detect  Doserve  Recognize  Identify  106m(348ft)  121m(69ft)  10m(32ft)  T  320m(1050ft)  128m(420ft)  64m(210ft)  32m(105ft)  Pan/Tilt/Rotation  Pan/Tilt/Rotation Range  Pan:0'~360'; Tilt:0'~90'; Rotation:0'~360'  Artificial Intelligence  Face Caputure  Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger  Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support H.265+/H.264+  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	Max. Aperture		F1.53			
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Close Focus Distance  Lens Detect Dobserve Recognize Identify  DORI Distance T 320m(1050ft) 128m(420ft) 10m(348ft) 21m(69ft) 10m(32ft) 32m(1050ft) 128m(420ft) 64m(210ft) 32m(105ft)  Pan/Tilt/Rotation  Pan/Tilt/Rotation Range Pan:0'~360'; Tilt:0'~90'; Rotation:0'~360'  Artificial Intelligence  Face Caputure Support face image caputure  Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec Support H.265+/H.264+  Streaming Capability 3 Streams 1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)	Optical Zoom		4x			
DORI Distance    Lens	Focus Control		Motorized			
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Face Caputure  Support face image caputure  Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Event Trigger  Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support H.265+/H.264+  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	Pan/Tilt/Rotati	on Range	Pan:0°~360°; T	ilt:0°~90°; Rota	ntion:0°~360°	
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Face Attributes  Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard  General Intelligence  Wotion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support H.265+/H.264+  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	Face Caputure		Support face image caputure			
Event Trigger  Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support H.265+/H.264+  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	·		Gender, Expression(Jolly, Calm, Surprise, Sad, Rage),			
Event Trigger  Network disconnection , IP address conflict, Illegal Access, Storage anomaly  General Intelligence  Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map  Video  Compression  H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec  Support H.265+/H.264+  Streaming Capability  3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	General Inte	elligence				
Counting, Heat Map  Video  Compression H.265/H.264/H.264B/H.264H/MJPEG(sub stream)  Smart Codec Support H.265+/H.264+  Streaming Capability 3 Streams  1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	-		Network disconnection , IP address conflict, Illegal			
Video           Compression         H.265/H.264/H.264B/H.264H/MJPEG(sub stream)           Smart Codec         Support H.265+/H.264+           Streaming Capability         3 Streams           1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	General Intelligence		Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map			
Smart Codec         Support H.265+/H.264+           Streaming Capability         3 Streams           1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	Video					
Streaming Capability 3 Streams 1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)	Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)			
1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)	Smart Codec		Support H.265+/H.264+			
	Streaming Capability		3 Streams			
	Resolution					P(1280x720)

	Main Stream: 1080P(1~50/60fps)		
Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)		
	Third Stream: 1080P(1~50/60fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 24~ 10240Kbps		
Day/Night	H.265: 14~ 6144Kbps Auto(ICR) / Color / B/W		
BLC Mode	BLC / HLC / WDR(120dB)/ SSA		
White Balance	Auto/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	16x		
Flip	0°/90°/180°/270°		
Mirror	Off / On		
Privacy Masking	Off / On (4 Area, Rectangle)		
Audio			
Compression	G.711a/ G.711Mu/ AAC/ G.726		
Network			
Ethernet	RJ-45 (100/1000Base-T)		
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;Qo5;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS		
Interoperability	ONVIF Profile S&G, API		
Streaming Method	Unicast / Multicast		
Max. User Access	10 Users/20 Users		
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB		
Web Viewer	IE, Chrome, Firefox, Safari		
Management Software	Smart PSS, DSS, DMSS		
Smart Phone	IOS, Android		
Certifications			
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B		

# Interface

Video Interface	1 port(BNC,1Vp-p,75Ω)
Audio Interface	1/1 channel In/Out
RS485	1 port
Alarm	3 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC
Power Out	165mA 12VDC

# Electrical

Power Supply	DC12V, PoE+(802.3at)(Class 4)	
Power Consumption	DC12V:5W 20W(IR on) PoE:5W 21W(IR on)	

#### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

# Construction

Casing	Metal
Dimensions	457mm*124.3mm*108mm(18"×4.89"×4.25")
Net Weight	1.87Kg (4.12lb)
Gross Weight	3.43Kg (7.56lb)

# **Accessories**

# Optional:







PFA150 Pole Mount

PFA151 Corner Mount

PFA140 Water-proof PowerBox

Pole Mount	Corner Mount	Water-proof Power Box	
PFA150	PFA151	PFA140	
Wall Mount	Ceiling Mount		

#### **Ordering Information** Type Part Number Description DH-IPC-2MP Starlight Bullet Network Camera, PAL HFW8242EP-ZFD-BIRA-LED-0832 DH-IPC-HFW8242EN-ZFD-2MP Starlight Bullet Network Camera, NTSC BIRA-LED-0832 2MP camera IPC-HFW8242EP-2MP Starlight Bullet Network Camera, ZFD-BIRA-LED-0832 IPC-HFW8242EN-2MP Starlight Bullet Network Camera, ZFD-BIRA-LED-0832 NTSC PFA150 Pole Mount Accessories PFA151 Corner Mount (optional) PFA140 Water-proof Power Box

# Dimensions (mm/inch)



