

# DH-IPC-HFW8242E-Z20FD-IRA-LED

2MP Starlight Bullet Network Camera



Deep · Sense

DeepSense 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 DeepSense series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua DeepSense 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 Al 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.

- · 1/1.9" 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 30m
- · Support face capture, face attributes













#### Starlight Technology

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



Technical S	pecificat	ion					
Technical Specification  Camera						Main Stream: 1080P(1~50/60fps)	
Image Sensor		1/1.9" 2Megapi	ixel progressive s	scan CMOS		Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)
Effective Pixels		1/1.9" 2Megapixel progressive scan CMOS 1920(H)x1080(V)					Third Stream: 1080P(1~50/60fps)
RAM/ROM		2048MB/4096MB				Dit Data Control	CBR/VBR
Scanning System		Progressive				Bit Rate Control	H.264: 24~ 10240Kbps
Electronic Shutter Speed		Auto/Manual, 1	/3~1/100000s			Bit Rate	H.265: 14~ 6144Kbps
Liecti onic shatter speed			Color,1/3s,30IRI	E)		Day/Night	Auto(ICR) / Color / B/W
Minimum Illumination		0.03Lux/F1.4( C 0Lux/F1.4(IR on	color,1/30s,30IRI ı)	E)		BLC Mode	BLC / HLC / WDR(120dB)/ SSA
S/N Ratio		More than 50dl	В			White Balance	Auto/Manual
LED Distance		Distance up to 3	30m(98ft)			Gain Control	Auto/Manual
LED On/Off Control		Auto/Manual				Noise Reduction	3D DNR
LEDs		6				Motion Detection	Off / On (4 Zone, Rectangle)
Lens						Region of Interest	Off / On (4 Zone)
Lens Type		Motorized				Electronic Image Stabilization (EIS)	Support
Mount Type		Board-in				Smart IR	N/A
Focal Length  Max Aporture		6.7~134mm mc	otorized			Defog	Support
Max. Aperture  Angle of View		F1.4 H: 60°~4.1° V:36°~2.2°				Digital Zoom	16x
Optical Zoom		20x				Flip	0°/90°/180°/270°
Focus Control		Motorized				Mirror	Off / On
Close Focus Distance		3m(9.84ft)				Privacy Masking	Off / On (4 Area, Rectangle)
DORI	Lens W	Detect 71m(233ft)	Observe 28m(92ft)	Recognize 14m(46ft)	Identify 7m(23ft)	Audio	
Distance	T		503m(1650ft)	` ,	, ,		/
Pan/Tilt/Rot	tation			, ,		Compression	G.711a/ G.711Mu/ AAC/ G.726
Pan/Tilt/Rotati		Pan:0°~360°: Til	t:0°~90°; Rotatio	on:0°~360°		Network	
Artificial Int	elligence					Ethernet	RJ-45 (100/1000Base-T)
Face Caputure	emgerree	Support face im	nage caputure			Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTF FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP; NMP;TLS
Face Attributes		Expression(Jolly	of face attribut ,, Calm, Surprise			Interoperability	ONVIF Profile S&G, API
		Mask, Moustache & Beard				Streaming Method	Unicast / Multicast
General Inte	elligence					Max. User Access	10 Users/20 Users
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Edge Storage	NAS Local PC for instant recording Micro SD card 256GB
General Intelligence Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map		з, георіе	Web Viewer	IE, Chrome, Firefox, Safari			
Video						Management Software	Smart PSS, DSS, DMSS
Compression		H.265/H.264/H	.264B/H.264H/N	ИJPEG(sub strea	am)	Smart Phone	IOS, Android
Smart Codec		Support H.265+	-/H.264+			Certifications	
Streaming Capability		3 Streams				CE (EN 60950:2000)	CE (EN 60950:2000)
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)				Certifications	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	2.46Kg (5.42lb)
Gross Weight	3.43Kg (7.56lb)

#### **Ordering Information** Type Part Number Description DH-IPC-2MP Starlight Bullet Network Camera, HFW8242EP-ZFD-BIRA-LED-67134 2MP Starlight Bullet Network Camera, HFW8242EN-ZFD-BIRA-LED-67134 2MP camera IPC-HFW8242EP-2MP Starlight Bullet Network Camera, ZFD-BIRA-LED-67134 IPC-HFW8242EN-2MP Starlight Bullet Network Camera, ZFD-BIRA-LED-67134 PFA150 Pole Mount Accessories PFA151 Corner Mount (optional) PFA140 Water-proof Power Box

### **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	

# Dimensions (mm/inch)



