

# DH-IPC-HDBW8242E-Z4FD

2MP IR Starlight Dome 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.

- · 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. IR LEDs Length 100m
- · Support face capture, face attributes













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)

Embeded 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	pecificatio	n					
Camera				Main Stream: 1080P(1~50/60fps)			
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS				Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)
Effective Pixels		1920(H)x1080(V)					Third Stream: 1080P(1~50/60fps)
RAM/ROM		2048MB/4096MB				Bit Rate Control	CBR/VBR
Scanning System		Progressive				Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Day/Night	Auto(ICR) / Color / B/W
7 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		0.002Lux/F1.53( Color,1/3s,30IRE)				BLC Mode	BLC / HLC / WDR(120dB)/ SSA
Minimum Illumination		0.01Lux/F1.53( Color,1/30s,30IRE) 0Lux/F1.53(IR on)			White Balance	Auto/Manual	
S/N Ratio		More than 50dB				Gain Control	Auto/Manual
IR Distance		Distance up to 100m(328ft)				Noise Reduction	3D DNR
IR On/Off Control		Auto/Manual				Motion Detection	Off / On (4 Zone, Rectangle)
IR LEDs		3				Region of Interest	Off / On (4 Zone)
Lens						Electronic Image Stabilization (EIS)	Support
Lens Type		Motorized				Smart IR	N/A
Mount Type Focal Length		Board-in				Defog	Support
Max. Aperture		8~32mm motorized F1.53				Digital Zoom	16x
Angle of View		H: 40°~12.9° V:22°~7.2°				Flip	0°/90°/180°/270°
Optical Zoom		4x			Mirror	Off / On	
Focus Control		Motorized				Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Dis	Lens	3m(9.84ft) Detect	Observe	Recognize	Identify	Audio	on for three, necessingles
DORI Distance	W	106m(348ft)	42m(138ft)	21m(69ft)	10m(32ft)	Audio	
Distance	Т	320m(1050ft)	128m(420ft)	64m(210ft)	32m(105ft)	Compression	G.711a/ G.711Mu/ AAC/ G.726
Pan/Tilt/Ro	tation					Network	
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°			Ethernet	RJ-45 (100/1000Base-T)	
Artificial Int	elligence	Support face image caputure				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S
race capatare						1.00	NMP;TLS ONVIF Profile S&G, API
Face Attributes		Gender, Expre	ds of face attrib ssion(Jolly, Calr h Mask, Moust	m, Surprise, S	ad, Rage),	Interoperability Streaming Method	Unicast / Multicast
General Intelligence		Glasses, Mout	ii iviask, ivioust	acrie & beard		Max. User Access	10 Users/20 Users
Generalino	enigence	Motion detect	tion. Video tam	pering . Scene	e changing.	IVIAX. USEI Access	NAS
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly				Edge Storage	Local PC for instant recording Micro SD card 128GB
General Intellig	gence	Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map				Web Viewer	IE, Chrome, Firefox, Safari
Video						Management Software	Smart PSS, DSS, DMSS
Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)				Smart Phone	IOS, Android
Smart Codec		Support H.265	5+/H.264+			Certifications	
Streaming Capability		3 Streams				Certifications	CE (EN 60950:2000) UL:UL60950-1
		20×1080)/ 1.3M(1280×960)/ 0×720)/ D1(704×576/704×480)/ /480)				FCC: FCC Part 15 Subpart B	

### Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	1 port
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC

#### Electrical

Power Supply	DC12V, AC24V, PoE+(802.3at)(Class 4)
Power Consumption	DC12V:6.6W 15.84W(IR on) PoE:6.1W 14W(IR on)

### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	Ф159.1mm*117.9mm
Net Weight	0.99Kg (2.18lb)
Gross Weight	1.9Kg (4.19lb)

#### **Ordering Information** Part Number Type Description DH-IPC-2MP IR Starlight Dome Network Camera, HDBW8242EP-ZFD-0832 DH-IPC-2MP IR Starlight Dome Network Camera, NTSC HDBW8242EN-ZFD-0832 2MP camera IPC-HDBW8242EP-2MP IR Starlight Dome Network Camera, ZFD-0832 IPC-HDBW8242EN-2MP IR Starlight Dome Network Camera, ZFD-0832 Accessories PFA138 Junction Box (included) Wall mount PFB210W PFB201C In-ceiling mount Accessories PFB300C Ceiling mount (optional) PFA152-E Pole mount PFA101 Mount adapter

### **Accessories**

## **Optional:**







PFA138 Junction box

PFB210W Wall mount

PFA152-E Pole mount







PFA101 Mount adapter

PFB300C Ceiling mount

PFB201C In-ceiling mount

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFB210W+PFA152-E	
6			
Ceiling Mount	Wall Mount		
PFA101+PFB300C	PFB210W (Indoor)	PFB210W (Outdoor)	

## Dimensions (mm/inch)





