

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.

Starlight Technology

- 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+
- \cdot Max. IR LEDs Length 100m
- \cdot 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.



www.dahuasecurity.com

Al Series | DH-IPC-HDBW8242E-Z4FD

Technical Specification

Camera					
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		2048MB/4096MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.002Lux/F1.53(Color,1/3s,30IRE) 0.01Lux/F1.53(Color,1/30s,30IRE) 0Lux/F1.53(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 100m(328ft)			
IR On/Off Control		Auto/Manual			
IR LEDs		3			
Lens					
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)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	106m(348ft)	42m(138ft)	21m(69ft)	10m(32ft)
	т	320m(1050ft)	128m(420ft)	64m(210ft)	32m(105ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°			
Artificial Int	elligence				
Face Caputure		Support face image caputure			
Face Attributes		Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard			
General Inte	elligence				
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			
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)			

	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 H.265: 14~ 6144Kbps			
Day/Night	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;QoS;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			

Al Series | DH-IPC-HDBW8242E-Z4FD

Interface

Ordering Information

Туре

2MP camera

Accessories

Accessories

(optional)

(included)

Part Number

HDBW8242EP-

HDBW8242EN-ZFD-0832

IPC-HDBW8242EP-

IPC-HDBW8242EN-

DH-IPC-

ZFD-0832 DH-IPC-

ZFD-0832

ZFD-0832

PFA138

PFB210W

PFB201C

PFB300C

PFA152-E

PFA101

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 $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH			
Storage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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)			

Description

PAL

PAL

NTSC

Junction Box

Wall mount

In-ceiling mount

Ceiling mount

Pole mount

Mount adapter

2MP IR Starlight Dome Network Camera,

2MP IR Starlight Dome Network Camera, NTSC

2MP IR Starlight Dome Network Camera,

2MP IR Starlight Dome Network Camera,

Accessories

Optional:



0



Pole mount

PFA138 Junction box

PFB210W Wall mount



PFA101 Mount adapter

PFB300C Ceiling mount

PFB201C In-ceiling mount



Dimensions (mm/inch)





Rev 001.001© 2018 Dahua. All rights reserved. Design and specifications are subject to change without notice