

DH-IPC-HDBW8242E-Z4FD

2MP IR Starlight Dome 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 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+
- \cdot Max. IR LEDs Length 100m
- · 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)

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.



DeepSense 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 Dis | stance | 3m(9.84ft) | | | | |
| DORI | Lens | Detect | Observe | Recognize | Identify | |
| 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/Rotati | on Range | Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355° | | | | |
| Artificial Intelligence | | | | | | |
| 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 Intellig | 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 | | | |
| | | | | |

DeepSense Series | DH-IPC-HDBW8242E-Z4FD

Interface

Ordering Information

Туре

2MP camera

Accessories

Accessories

(optional)

(included)

Part Number

HDBW8242EP-

IPC-HDBW8242EP-

IPC-HDBW8242EN-

DH-IPC-

ZFD-0832

DH-IPC-HDBW8242EN-ZFD-0832

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

PFA138

Optional:





Pole mount

Junction box

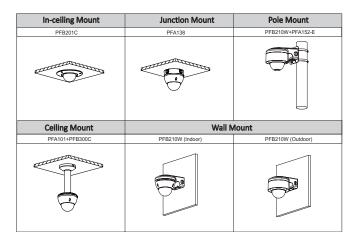
PFB210W Wall mount



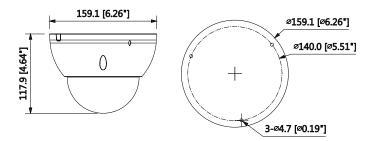
PFA101 Mount adapter

PFB300C Ceiling mount

PFB201C In-ceiling mount



Dimensions (mm/inch)





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