

# DH-IPC-HDBW1320E-W

3MP IR Mini-Dome Wi-Fi Network Camera



- 1/3" 3Megapixel progressive CMOS
- H.264 & MJPEG dual-stream encoding
- 20fps@ (2304x1296) & 25/30fps@2M (1920x1080)
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Wi-Fi support
- 2.8 mm fixed lens (3.6 mm optional)
- Max IR LEDs Length 30m
- IP67, IK10



## System Overview

The IR Megapixel Fixed MiniDome camera delivers 3MP resolution with a choice of 2.8mm or 3.6mm wide angle lens options. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

## Functions

### True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

### Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas.

### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whiting out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

### Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

## Environmental

With a temperature range of -30 °C to +60 °C (-22°F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

## Protection

Supporting ±10% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

## Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

## Technical Specification

## Camera

|                      |                                      |
|----------------------|--------------------------------------|
| Image Sensor         | 1/3" 3Megapixel progressive CMOS     |
| Effective Pixels     | 2304(H)x1536(V)                      |
| RAM/ROM              | 256MB/16MB                           |
| Scanning System      | Progressive                          |
| Minimum Illumination | 0.1Lux/F2.0(Color), 0Lux/F2.0(IR on) |
| S/N Ratio            | More than 50dB                       |
| IR Distance          | Distance up to 30m(98ft)             |
| IR On/Off Control    | Auto/ Manual                         |
| IR LEDs              | 24                                   |

## Lens

|                      |                          |
|----------------------|--------------------------|
| Lens Type            | Fixed                    |
| Mount Type           | Board-in                 |
| Focal Length         | 2.8 mm (3.6 mm optional) |
| Max. Aperture        | F2.5/F2.5                |
| Angle of View        | H:100°/77°, V:55°/42°    |
| Focus Control        | Fixed                    |
| Close Focus Distance | N/A                      |

## PTZ

|                |                                               |
|----------------|-----------------------------------------------|
| Pan/Tilt Range | Pan:0° ~355° ;Tilt:0° ~55° ;Rotation:0° ~355° |
|----------------|-----------------------------------------------|

## Video

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Compression          | H.264/H.264B/H.264H/MJPEG                                                                               |
| Streaming Capability | 2 Streams                                                                                               |
| Resolution           | 3M(2304×1296)/1080P(1920×1080)/ 1.3M(1280×960)/720P(1280×720)/720P(1280×720)/VGA(640×480)/QVGA(320×240) |
| Frame Rate           | 3M(1 ~ 20fps)/2M(1 ~ 25/30fps)<br>VGA(1 ~ 25/30fps)                                                     |
| Bit Rate Control     | CBR/VBR                                                                                                 |
| Bit Rate             | H264:32K ~ 10240Kbps                                                                                    |
| Day/Night            | Auto(ICR) / Color / B/W                                                                                 |
| BLC Mode             | BLC / HLC / DWDR                                                                                        |

|                    |                                         |
|--------------------|-----------------------------------------|
| White Balance      | Auto/Natural/Street Lamp/Outdoor/Manual |
| Gain Control       | Auto/Manual                             |
| Noise Reduction    | 3D DNR                                  |
| Motion Detetion    | Off / On (4 Zone, Rectangle)            |
| Region of Interest | Off / On (4 Zone)                       |
| Electronic Image   | Support                                 |
| Smart IR           | Support                                 |
| Digital Zoom       | 16x                                     |
| Flip               | 0°/90°/180°/270°                        |
| Mirror             | Off / On                                |
| Privacy Masking    | Off / On (4 Area, Rectangle)            |

## Audio

|             |     |
|-------------|-----|
| Compression | N/A |
|-------------|-----|

## Network

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| Ethernet            | RJ-45 (10/100Base-T)                                                                                                  |
| Protocol            | HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;802.1x;Multicast;ICMP;IGMP; |
| Interoperability    | ONVIF, PSIA, CGI                                                                                                      |
| Streaming Method    | Unicast / Multicast                                                                                                   |
| Max. User Access    | 10 Users/20 Users                                                                                                     |
| Edge Storage        | NAS(Network Attached Storage),Local PC for instant recording, 128GB                                                   |
| Web Viewer          | IE, Chrome, Firefox, Safari                                                                                           |
| Management Software | Smart PSS, DSS,Easy4ip                                                                                                |
| Smart Phone         | iPhone, iPad, Android Phone                                                                                           |

## Certifications

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Certifications | CE (EN 60950:2000)<br>UL:UL60950-1<br>FCC: FCC Part 15 Subpart B |
|----------------|------------------------------------------------------------------|

## Interface

|                 |     |
|-----------------|-----|
| Video Interface | N/A |
| Audio Interface | N/A |
| RS485           | N/A |
| Alarm           | N/A |

## Electrical

|                   |       |
|-------------------|-------|
| Power Supply      | DC12V |
| Power Consumption | <5.5W |

Environmental

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Operating Conditions | -10° C ~ +50° C (-14° F ~ +122° F) / Less than 95% RH |
| Storage Conditions   | -10° C ~ +50° C (14° F ~ +122° F) / Less than 95% RH  |
| Ingress Protection   | IP67                                                  |
| Vandal Resistance    | IK10                                                  |

Construction

|              |                                 |
|--------------|---------------------------------|
| Casing       | Metal                           |
| Dimensions   | Φ109.9mm × 81mm (4.33" x 3.19") |
| Net Weight   | 0.34Kg (0.75lb)                 |
| Gross Weight | 0.47Kg (1.04lb)                 |

Ordering Information

| Type                   | Part Number               | Description                                        |
|------------------------|---------------------------|----------------------------------------------------|
| 3MP camera             | DH-IPC-HDBW1320EP-W-0280B | 3MP IR Mini-Dome Wi-Fi Network Camera, 2.8mm, PAL  |
|                        | DH-IPC-HDBW1320EN-W-0280B | 3MP IR Mini-Dome Wi-Fi Network Camera, 2.8mm, NTSC |
|                        | IPC-HDBW1320EP-W-0280B    | 3MP IR Mini-Dome Wi-Fi Network Camera, 2.8mm, PAL  |
|                        | IPC-HDBW1320EN-W-0280B    | 3MP IR Mini-Dome Wi-Fi Network Camera, 2.8mm, NTSC |
|                        | DH-IPC-HDBW1320EP-W-0360B | 3MP IR Mini-Dome Wi-Fi Network Camera, 3.6mm, PAL  |
|                        | DH-IPC-HDBW1320EN-W-0360B | 3MP IR Mini-Dome Wi-Fi Network Camera, 3.6mm, NTSC |
|                        | IPC-HDBW1320EP-W-0360B    | 3MP IR Mini-Dome Wi-Fi Network Camera, 3.6mm, PAL  |
|                        | IPC-HDBW1320EN-W-0360B    | 3MP IR Mini-Dome Wi-Fi Network Camera, 3.6mm, NTSC |
| Accessories (optional) | PFA136                    | Junction box                                       |
|                        | PFB203W                   | Wall mount                                         |
|                        | PFA152                    | Pole mount                                         |

Accessories

Optional:



| Junction Mount | Pole Mount       |
|----------------|------------------|
| PFA136         | PFB203W + PFA152 |
|                |                  |
| Wall Mount     |                  |
| PFB203W        |                  |
|                |                  |

Dimensions (mm/inch)

