

# DH-IPC-HDBW1230E-S

2MP IR Mini-Dome Network Camera



- 1/2.7" 2Megapixel progressive CMOS
- H.265 & H.264 dual-stream encoding
- 25/30fps@1080P(1920x1080)
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Micro SD card slot, up to 128GB
- 2.8 mm fixed lens (3.6 mm optional)
- Max IR LEDs Length 30m
- IP67, IK10, PoE



## System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP resolution with a motorized 2.8mm/3.6mm fixed lens. 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

### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

### Intelligent Video analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

### Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening 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).

### Protection (IP67, IK10, wide voltage)

The camera allows for  $\pm 10\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to +60° C (-22° F to +140° F) with 95% humidity. An optional heater module extends the multi-sensor camera's temperature range to -40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

### 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.

### 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             | 1/2.7" 2Megapixel progresive CMOS                                                      |
| Effective Pixels         | 1920(H)x1080(V)                                                                        |
| RAM/ROM                  | 256MB/128MB                                                                            |
| Scanning System          | Progressive                                                                            |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s                                                             |
| Minimum Illumination     | 0.08Lux/F2.0( Color,1/3s,30IRE)<br>0.3Lux/F2.0( Color,1/30s,30IRE)<br>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        |        | F2.0/F2.0                |          |           |          |
| Angle of View        |        | H:104°/92°;V:55°/50°     |          |           |          |
| Focus Control        |        | Fixed                    |          |           |          |
| Close Focus Distance |        | 0.6m(0.9m)               |          |           |          |
| DORI Distance        | Lens   | Detect                   | Observe  | Recognize | Identify |
|                      | 2.8 mm | 40(131ft)                | 16(52ft) | 8(26ft)   | 4(13ft)  |
|                      | 3.6 mm | 53(174ft)                | 21(69ft) | 11(36ft)  | 5(16ft)  |

|                |                                               |
|----------------|-----------------------------------------------|
| PTZ            |                                               |
| Pan/Tilt Range | Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355° |

|              |                     |
|--------------|---------------------|
| Intelligence |                     |
| IVS          | Tripwire, Intrusion |

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| Video                |                                                                                                 |
| Compression          | H.265+/H.265/H.264+/H.264                                                                       |
| Streaming Capability | 2 Streams                                                                                       |
| Resolution           | 1080P(1920×1080)/1.3M(1280×960)/<br>720P(1280×720)/D1(704×576/704×480)/<br>CIF(352×288/352×240) |
| Frame Rate           | 1080P (1 ~ 25/30fps)                                                                            |
|                      | D1/CIF(1 ~ 25/30fps)                                                                            |
| Bit Rate Control     | CBR/VBR                                                                                         |
| Bit Rate             | H.265: 12K ~ 6400Kbps<br>H.264: 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;<br>DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;<br>Bonjour;802.1x;Multicast;ICMP;IGMP; |
| Interoperability    | ONVIF, PSIA, CGI                                                                                                              |
| Streaming Method    | Unicast / Multicast                                                                                                           |
| Max. User Access    | 10 Users / 20 Users                                                                                                           |
| Edge Storage        | NAS<br>Local PC for instant recording<br>Micro SD Card 128GB                                                                  |
| Web Viewer          | IE, Chrome, Firefox, Safari                                                                                                   |
| Management Software | Smart PSS, DSS, Easy4ip                                                                                                       |
| Smart Phone         | IOS, Android                                                                                                                  |

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| 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 PoE (802.3af)(Class 0) |
| Power Consumption | <4.3W                        |

## 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   | Φ109.9mm × 81mm (4.33" × 3.19") |
| Net Weight   | 0.34Kg (0.75lb)                 |
| Gross Weight | 0.47Kg (1.04lb)                 |

## Ordering Information

| Type                   | Part Number               | Description                                  |
|------------------------|---------------------------|----------------------------------------------|
| 2MP camera             | DH-IPC-HDBW1230EP-S-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, PAL  |
|                        | DH-IPC-HDBW1230EN-S-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, NTSC |
|                        | IPC-HDBW1230EP-S-0280B    | 2MP IR Mini-Dome Network Camera, 2.8mm, PAL  |
|                        | IPC-HDBW1230EN-S-0280B    | 2MP IR Mini-Dome Network Camera, 2.8mm, NTSC |
|                        | DH-IPC-HDBW1230EP-S-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, PAL  |
|                        | DH-IPC-HDBW1230EN-S-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, NTSC |
|                        | IPC-HDBW1230EP-S-0360B    | 2MP IR Mini-Dome Network Camera, 3.6mm, PAL  |
|                        | IPC-HDBW1230EN-S-0360B    | 2MP IR Mini-Dome Network Camera, 3.6mm, NTSC |
| Accessories (optional) | PFA136                    | Junction box                                 |
|                        | PFB203W                   | Wall mount                                   |
|                        | PFA152-E                  | Pole mount                                   |
|                        | PFA200W                   | Rain shade                                   |

## Accessories

### Optional:



PFA136  
Function Box



PFB203W  
Wall mount



PFA152-E  
Pole mount



PFA200W  
Rain Shade

| Junction Mount             | Pole Mount                                             |
|----------------------------|--------------------------------------------------------|
| PFA136                     | PFB203W + PFA152-E                                     |
|                            |                                                        |
| Wall Mount                 | Pole Mount with Rain Shade<br>PFA136+ PFA152-E+PFA200W |
| PFB203W                    |                                                        |
|                            |                                                        |
| Wall Mount with Rain Shade |                                                        |
| PFA136+PFA200W             |                                                        |

## Dimensions (mm/inch)

