

DH-IPC-HDBW1220ES2

2MP IR Mini-Dome Network Camera



- 1/2.9" 2Megapixel progressive CMOS
- H.264+ & H.264 dual-stream encoding
- 25/30fps@2M(1920x1080)
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8 mm fixed lens (3.6 mm optional)
- Max IR LEDs Length 30m
- IP67, IK10, PoE



System Overview

The IR Megapixel Fixed MiniDome camera delivers 2MP 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

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Technical Specification

Camera

| | |
|----------------------|--|
| Image Sensor | 1/2.9" 2Megapixel progressive CMOS |
| Effective Pixels | 1920(H)x1080(V) |
| RAM/ROM | 256MB/16MB |
| Scanning System | Progressive |
| Minimum Illumination | 0.01Lux/F2.0(Color), 0Lux/F2.0(IR on) |
| S/N Ratio | More than 50dB |
| IR Distance | Smart intelligent IR, 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:110°/83°;V:57°/44° |
| Focus Control | Fixed |
| Close Focus Distance | N/A |

PTZ

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

Video

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|----------------------|---|
| Compression | H.264+/H.264 |
| Streaming Capability | 2 Streams |
| Resolution | 1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) |
| Frame Rate | 2M (1 ~ 25/30fps)s D1/CIF(1 ~ 25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H264: 24K ~ 8192Kbps |
| 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

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

Network

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|---------------------|---|
| 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 Local PC for instant recording |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | Smart PSS, DSS, Easy4ip |
| Smart Phone | IOS, Android Phone |

Certifications

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

Interface

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

Electrical

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|-------------------|------------------------------|
| Power Supply | DC12V PoE (802.3af)(Class 0) |
| Power Consumption | <3.7W |

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

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|--------------|---------------------------------|
| 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 |
|------------------------|-------------------------|--|
| 2MP camera | DH-IPC-HDBW1220EP-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, PAL |
| | DH-IPC-HDBW1220EN-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, NTSC |
| | IPC-HDBW1220EP-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, PAL |
| | IPC-HDBW1220EN-0280B | 2MP IR Mini-Dome Network Camera, 2.8mm, NTSC |
| | DH-IPC-HDBW1220EP-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, PAL |
| | DH-IPC-HDBW1220EN-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, NTSC |
| | IPC-HDBW1220EP-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, PAL |
| | IPC-HDBW1220EN-0360B | 2MP IR Mini-Dome Network Camera, 3.6mm, NTSC |
| Accessories (optional) | PFA136 | Junction box |
| | PFB203W | Wall mount |
| | PFA152 | Pole mount |

Accessories

Optional:



PFA136
Junction Box



PFB203W
Wall Mount



PFA152
Pole Mount

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

Dimensions (mm/inch)

