

DH-IPC-HDBW1431E-S

4MP WDR IR Mini-Dome Network Camera



System Overview

The IR Megapixel Fixed Mini Dome camera delivers 4MP 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.

- · 1/3" 4Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- \cdot Micro SD card slot, up to 128GB
- · 2.8 mm fixed lens (3.6 mm optional)
- \cdot Max IR LEDs Length 30m
- IP67, IK10, PoE



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 with 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 $\pm 10\%$ 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

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the Robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc.



Technical Specification

| Camera | |
|--------|--|
|--------|--|

BLC Mode

| Camera | | | | | | |
|--------------------------|--------|---|---|-----------|----------|--|
| Image Sensor | | 1/3" 4Mega | 1/3" 4Megapixel progressive CMOS | | | |
| Effective Pixels | | 2688(H)x1520(V) | | | | |
| RAM/ROM | | 512MB/32N | ИB | | | |
| Scanning System | ı | Progressive | | | | |
| Electronic Shutter Speed | | Auto/Manual, 1/3(4)~1/100000s | | | | |
| Minimum Illumination | | 0.03Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) | | | | |
| S/N Ratio | | More than 45dB | | | | |
| IR Distance | | Distance up | Distance up to 30m(98ft) | | | |
| IR On/Off Contro | ol | Auto/ Manu | ıal | | | |
| IR LEDs | | 24 | | | | |
| Lens | | | | | | |
| Lens Type | | Fixed | | | | |
| Mount Type | | Board-in | | | | |
| Focal Length | | 2.8mm (3.6mm optional) | | | | |
| Max. Aperture | | F2.0/F2.0 | | | | |
| Angle of View | | H:104°/87°, V:57°/48° | | | | |
| Focus Control | | Fixed | | | | |
| Close Focus Distance | | N/A | | | | |
| | Lens | Detect | Observe | Recognize | Identify | |
| DORI Distance | 2.8 mm | 63(207ft) | 25(82ft) | 13(43ft) | 6(20ft) | |
| | 3.6 mm | 80(262ft) | 32(105ft) | 16(52ft) | 8(26ft) | |
| PTZ | | | | | | |
| Pan/Tilt Range | | Pan:0° ~355 | Pan:0° ~355° ;Tilt:0° ~64° ;Rotation:0° ~355° | | | |
| Video | | | | | | |
| Compression | | H.265+/H.265/H.264+/H.264 | | | | |
| Streaming Capability | | 2 Streams | | | | |
| Resolution | | 4M(2688x1520/2560x1440)/3M(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240) | | | | |
| Frame Rate | | 4M(1~20fps)/3M (1~25/30fps) | | | | |
| гтате кате | | D1/CIF(1 ~ 25/30fps) | | | | |
| Bit Rate Control | | CBR/VBR | | | | |
| Bit Rate | | H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps | | | | |
| Day/Night | | Auto(ICR) / Color / B/W | | | | |
| | | | | | | |

BLC / HLC / WDR(120dB)

| White Balance | Auto/Natural/Street Lamp/Outdoor/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 | 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;Qo5;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP |
| Interoperability | ONVIF, PSIA, CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 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,Easy4ip |
| Smart Phone | iPhone, iPad, Android Phone |
| Certifications | |
| Certifications | CE (EN 60950:2000) UL:UL60950-1 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 | <4.58W |
| | |

Lite Series | DH-IPC-HDBW1431E-S

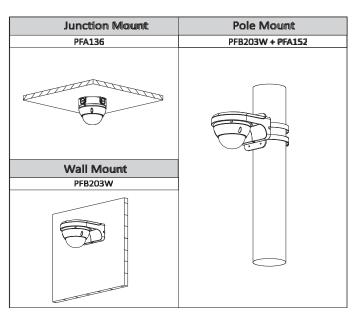
| Environmental | |
|----------------------|---|
| Operating Conditions | -30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH |
| Storage Conditions | -30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |
| Construction | |
| Casing | Metal |
| Dimensions | Ф109.9mm × 81mm (4.33" x 3.19") |
| Net Weight | 0.34Kg (0.75lb) |
| Gross Weight | 0.47Kg (1.04lb) |

Accessories

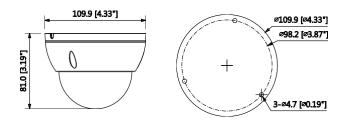
Optional:



PFB203W PFA152 Wall mount Pole mount



Dimensions (mm/inch)



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|------------|
| TECHNOLOGY |

| Ordering Information | | | | |
|---------------------------|-------------------------------|--|--|--|
| Туре | Part Number | Description | | |
| | DH-IPC-HDBW1431EP-S -0280B | 4MP WDR IR Mini-Dome Network Camera, 2.8mm,PAL | | |
| | DH-IPC-HDBW1431EN-S -0280B | 4MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC | | |
| | IPC-HDBW1431EP-S -0280B | 4MP WDR IR Mini-Dome Network Camera, 2.8mm,PAL | | |
| 4MP camera | IPC-HDBW1431EN-S -0280B | 4MP WDR IR Mini-Dome Network Camera, 2.8mm,NTSC | | |
| -init califera | DH-IPC-HDBW1431EP-S -0360B | 4MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL | | |
| | DH-IPC-HDBW1431EN-S -0360B | 4MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC | | |
| | IPC-HDBW1431EP-S -0360B | 4MP WDR IR Mini-Dome Network Camera, 3.6mm,PAL | | |
| | IPC-HDBW1431EN-S -0360B | 4MP WDR IR Mini-Dome Network Camera, 3.6mm,NTSC | | |
| Accessories (optional) | PFA136 | Junction box | | |
| | PFB203W | Wall mount | | |
| | PFA152 | Pole mount | | |