

DH-IPC-HDBW5231E-Z

2MP WDR IR Dome Network Camera



System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage, energy-saving design to enhance the monitoring system. Meanwhile, the series offers features such as starlight, Smart IR technology, intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders. This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

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 (0.006 lux).

Wide Dynamic Range

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.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelliegence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Environmental

With a temperature range of-30 °C to +60 °C (-22 °F to +140 °F), the

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & **DMSS**
- · 2.7mm ~12mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE

















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 enviorments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

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 Sn | ecification | | | | | Day/Night | Auto(ICR) / Color / B/W | |
|---|------------------|--|--------------|---------------|---------------|--|---|--|
| Technical Specification | | | | | | BLC Mode | BLC / HLC / WDR(120dB) | |
| Camera Image Sensor 1/2.8" 2Megapixel progressive s | | | sive scan CM | OS | White Balance | Auto/Natural/Street Lamp/Outdoor/Manua | | |
| Effective Pixels | | 1/2.8" 2Megapixel progressive scan CMOS 1920(H) x 1080(V) | | | | Gain Control | Auto/Manual | |
| RAM/ROM | | 256MB/32MB | | | | Noise Reduction | 3D DNR | |
| Scanning System | 1 | Progressive | | | | Motion Detetion | Off / On (4 Zone, Rectangle) | |
| | | Auto/Manual, 1/3~1/100000s | | | | Region of Interest | Off / On (4 Zone) | |
| Electronic Shutter Speed Minimum Illumination | | 0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) | | | | Electronic Image Stabilization (EIS) | N/A | |
| S/N Ratio | | OLux/F1.4 (IR on) More than 50dB | | | | Smart IR | Support | |
| IR Distance | | Distance up to 50m (164ft) | | | | Defog | N/A | |
| IR On/Off Contro | ol. | Auto/ Manual | | | | Digital Zoom | 16x | |
| IR LEDs | | | | | | Flip | 0°/90°/180°/270° | |
| | | 3 | | | | Mirror | Off/On | |
| Lens | | A4 | | | | Privacy Masking | Off / On (4 Area, Rectangle) | |
| Lens Type | | Motorized/ Auto Iris(DC) | | | | Audio | | |
| Mount Type | | Board-in | | | | Compression | G.711a/ G.711Mu/ AAC/ G.726 | |
| Focal Length | | 2.7mm~12mm | | | | | | |
| Max. Aperture | | F1.4 | | | | Network | | |
| Angle of View | | H: 97°~34° , V: 52°~20° | | | | Ethernet | RJ-45 (10/100Base-T) | |
| Optical Zoom Focus Control | | 4x Motorized | | | | Protocol | HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SM FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; Qo UPnP;NTP; Bonjour; 802.1x; Multicast; ICMI IGMP; SNMP | |
| Close Focus Dist | ance | 0.3m | | | | Interoperability | ONVIF, PSIA, CGI | |
| | Lens | Detect | Observe | Recognize | Identify | Streaming Method | Unicast / Multicast | |
| OORI Distance | W | 48m(157ft) | 19m(62ft) | 10m(33ft) | 5m(16ft) | Max. User Access | 10 Users / 20 Users | |
| Distance | Т | 133m(436ft) | 53m(174ft) | 27m(89ft) | 13m(46ft) | Wild. OSCI Access | NAS | |
| Pan/Tilt/Rota | ation | | | | | Edge Storage | Local PC for instant recording Mirco SD card 128GB | |
| Pan/Tilt/Rotatio | | Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355° | | | 5° | Web Viewer | IE, Chrome, Firefox, Safari | |
| Intelligence | | | | | | Management Software | Smart PSS, DSS, Easy4ip | |
| VS (optional) | | Tripwire, Intrusion, Object Abandoned/Missing | | | | Smart Phone | IOS, Android | |
| Advanced Intellig | gent Functions | Face Detection | | | | Certifications | | |
| Video | Serie Failetions | Tace Detection | | | | Certifications | CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B | |
| Compression | | H.265+/H.265/H.264+/H.264 | | | | Interface | | |
| Streaming Capab | oility | 3 Streams | | | | Video Interface | 1 Port(For adjustment only) | |
| Resolution | | 1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240) | | | | Audio Interface | 1/1 channel In/Out | |
| Frame Rate | | Main Stream: 1080P (1~50/60fps) | | | | RS485 | N/A | |
| | | Sub Stream: D1(1~50/60fps) | | | | Alarm | 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC | |
| | | Third Stream: 1080P(1~25/30fps) | | | | Electrical | | |
| Bit Rate Control | | CBR/VBR | | | | Power Supply | DC12V, AC24V, PoE(802.3af)(Class 0) | |
| Bit Rate | | H.264: 24~94 | 72Kbps H.2 | 265: 14~5632k | Cbps | Power Consumption | <12.5W | |

Environmental

| Operating Conditions | -30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH |
|----------------------|---|
| Strorage Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |

Construction

| Casing | Metal |
|--------------|--------------------------------|
| Dimensions | Ф159.1mm×117.9mm (6.26"×4.64") |
| Net Weight | 0.89kg (1.96lb) |
| Gross Weight | 1.13kg (2.49lb) |

Ordering Information Type Part Number Description DH-IPC-2MP IR Dome NetworkCamera,WDR, PAL HDBW5231EP-Z DH-IPC-2MP IR Dome Network Camera, WDR, NTSC HDBW5231EN-Z 2MP camera IPC-HDBW5231EP-Z 2MP IR Dome Network Camera, WDR, PAL IPC-HDBW5231EN-Z 2MP IR Dome Network Camera WDR,NTSC PFA138 Junction Box PFB302S Wall mount PFB201C In-ceiling mount Accessories (optional) PFB300C Ceiling mount PFA152 Pole mount PFA101 Mount adapter

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

In-ceiling mount







PFB300C Ceiling mount

PFA152 Pole mount

PFA101 Mount adapter

| In-ceiling Mount | Junction Mount | Pole Mount | |
|------------------|------------------|---------------------------|--|
| PFB201C | PFA138 | PFA101 + PFB302S + PFA152 | |
| 5 | | | |
| Ceiling Mount | Wall Mount | | |
| PFA101 + PFB300C | PFA101 + PFB302S | | |
| | | | |

Dimensions (mm/inch)





