

DH-IPC-HDW4431T-Z-S4

4MP WDR IR Eyeball 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 protection feature. Give customers more value

Functions

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 intelligence 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 camera is designed for extreme temperature environments. 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.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67, PoE
- · Micro SD card memory 256GB











Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 2KV 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.



| Technical Specification | | | | | Day/Night | Auto(ICR) / Color / B/W | |
|-------------------------------------|-------------------|---|---------------|---------------------|-------------------|--------------------------------------|---|
| Camera | | | | | | BLC Mode | BLC / HLC / WDR(120dB) |
| Image Sensor | | 1/3" 4Megapixel progressive scan CMOS | | | | White Balance | Auto/Natural/Street Lamp/Outdoor/Manual |
| Effective Pixels | | 2688(H)x1520(V) | | | | Gain Control | Auto/Manual |
| RAM/ROM | | 512MB/32MB | | | | Noise Reduction | 3D DNR |
| Scanning System | | Progressive | | | | Motion Detetion | Off / On (4 Zone, Rectangle) |
| Electronic Shutter Speed | | Auto/Manual, 1/3~1/100000s | | | | Region of Interest | Off / On (4 Zone) |
| Minimum Illumination | | 0.02Lux/F1.6 (Color,1/3s,30IRE) 0.1Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on) | | | | Electronic Image Stabilization (EIS) | N/A |
| IR Distance | | Distance up to 50m (164ft) | | | | Smart IR | Support |
| IR On/Off Contr | IR On/Off Control | | I | | | Defog | N/A |
| IR LEDs | | 2 | | | | Digital Zoom | 16x |
| Lens | | | | | | Flip | 0°/90°/180°/270° |
| Lens Type | | Motorized | | | | Mirror | Off / On |
| Mount Type | | Board-in | | | | Privacy Masking | Off / On (4 Area, Rectangle) |
| Focal Length | | 2.7mm~13.5mm | | | | Audio | |
| Max. Aperture | | F1.6 | | | | Compression | G.711a/ G.711Mu/ AAC/ G.726 |
| Angle of View | | H: 100°~27° , V:54°~16° | | | | Network | |
| Optical Zoom | | 5x | | | | Ethernet | RJ-45 (10/100Base-T) |
| Aperture Type Close Focus Distance | | Fixed | | | | 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; SNMP; SFTP; RTMP; NFS; SMB |
| close rocus bis | Lens | 0.8m Detect Observe Recognize Identify | | | | Interoperability | ONVIF, CGI, Milstone, Genetec |
| DORI | W | 64m(210ft) | 26m(85ft) | Recognize 13m(43ft) | Identify 6m(20ft) | Streaming Method | Unicast / Multicast |
| Distance | | | | | | Max. User Access | 10 Users /20 Users |
| Pan/Tilt/Rotation | | 222m(728ft) 89m(292ft) 44m(144ft) 22m(72ft) | | | 22111(7211) | Edge Storage | NAS Local PC for instant recording Mirco SD card 256GB |
| Pan/Tilt/Rotation | on Range | Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360° | | | | Web Viewer | IE, Chrome, Firefox, Safari |
| Intelligence | | | | | | Management Software | Smart PSS, DSS, Easy4ip |
| IVS | | Tripwire, Intr | usion, Object | Abandoned/M | lissing | Smart Phone | IOS, Android |
| Advanced Intell | igent Functions | Face Detection | | | | Certifications | 103, Alluloid |
| Video | | | | | | Certifications | CE (EN 60950:2000) |
| Compression | | H.265+/H.265 | 5/H.264+/H.2 | 64 | | Certifications | UL:UL60950-1 FCC: FCC Part 15 Subpart B |
| Streaming Capa | bility | 3 Streams | | | | Interface | |
| Resolution | | 4M(2688x1520)/3M(2304x1296)/1080P(192 0x1080) /1.3M(1280×960)/720P(1280×720)/ D1(704x576/704×480)/VGA(640×480)/ CIF(352×288/352×240) | | | | Video Interface | N/A |
| | | | | | | Audio Interface | Built-in Mic |
| Frame Rate | | Main Stream: 4M(1~25/30fps) | | | | RS485 | N/A |
| | | Sub Stream: D1(1~25/30fps) | | | | Alarm | N/A |
| | | Third Stream: 1080P(1~14/4fps) | | | | Electrical | |
| Bit Rate Control | | CBR/VBR | | | | Power Supply | DC12V, PoE(802.3af)(Class 0) |
| Bit Rate | | H.264: 32~10 | 240Kbps H.: | 265: 32~8192K | bps | Power Consumption | <8.2W |
| Sit nate | | H.264: 32~10240Kbps H.265: 32~8192Kbps | | | | | |

Environmental

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

Construction

| Casing | Metal |
|--------------|-----------------------------|
| Dimensions | Ф122mm×104.9mm (4.8"×4.13") |
| Net Weight | 0.6Kg (1.32lb) |
| Gross Weight | 0.76Kg (1.67lb) |

| Ordering Information | | | | |
|------------------------|---------------------------|--|--|--|
| Туре | Part Number | Description | | |
| | DH-IPC- HDW4431TP-Z-S4 | 4MP IR Eyeball Network Camera, WDR, PAL | | |
| 40.40 | DH-IPC- HDW4431TN-Z-S4 | 4MP IR Eyeball Network Camera, WDR, NTSC | | |
| 4MP camera | IPC-HDW4431TP- Z-S4 | 4MP IR Eyeball Network Camera, WDR, PAL | | |
| | IPC-HDW4431TN- Z-S4 | 4MP IR Eyeball Network Camera, WDR, NTSC | | |
| | PFB203W | Wall mount | | |
| Accessories (optional) | PFA137 | Junction box | | |
| | PFA152-E | Pole Mount | | |

Accessories

Optional:







PFA152-E Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

| Junction Mount | Pole Mount |
|----------------|------------------|
| PFA137 | PFB203W+PFA152-E |
| | |
| Wall Mount | |
| PFB203W | |
| | |

Dimensions (mm[inch])





