# HIKVISION®

## DS-2CD2146G2H-I(SU)
### 4 MP AcuSense Powered-by-DarkFighter Fixed Dome Network Camera

AcuSense

**Powered by**
**DarkFighter**

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 4 MP resolution

- Excellent low-light performance with powered-by-DarkFighter technology

- Clear imaging against strong backlight due to 120 dB true WDR technology

- Efficient H.265+ compression technology

- Focus on human and vehicle targets classification based on deep learning

- Built-in microphone for real-time auto security(-SU)

- Water and dust resistant (IP67) and vandal-resistant (IK10)

## ▪ Specification

| Camera | |
|---|---|
| Image Sensor | 1/3" Progressive Scan CMOS |
| Max. Resolution | 2688 × 1520 |
| Min. Illumination | Color: 0.001 Lux @ (F1.0, AGC ON), B/W: 0 Lux with IR |
| Shutter Time | 1/3 s to 1/100,000 s |
| Day & Night | IR cut filter |
| Angle Adjustment | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355° |
| **Lens** | |
| Lens Type | Fixed focal lens, 2.8 and 4 mm optional |
| Focal Length & FOV | 2.8 mm, horizontal FOV 100.2°, vertical FOV 54.7°, diagonal FOV 119.7° |
| | 4 mm, horizontal FOV 81.1°, vertical FOV 44.7°, diagonal FOV 94.6° |
| Lens Mount | M12 |
| Iris Type | Fixed |
| Aperture | F1.0 |
| Depth of Field | 2.8 mm: 1.9 m to ∞ |
| | 4 mm: 2.5 m to ∞ |
| **DORI** | |
| DORI | 2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m |
| | 4mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | Up to 30 m |
| Smart Supplement Light | Yes |
| IR Wavelength | 850 nm |
| **Video** | |
| Main Stream | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| | 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) |
| | 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) |
| Third Stream | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | *Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.265+/H.264+ |
| | Sub-stream: H.265/H.264/MJPEG |
| | Third stream: H.265/H.264 |
| | *Third stream is supported under certain settings. |
| Video Bit Rate | 32 Kbps to 8 Mbps |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.265 Type | Main Profile |
| Bit Rate Control | CBR/VBR |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding |
| Region of Interest (ROI) | 1 fixed region for main stream and sub-stream |
| **Audio** | |
| Audio Compression | -SU: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC |

| Audio Bit Rate | -SU: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC) |
|---|---|
| Audio Sampling Rate | -SU: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |
| Environment Noise Filtering | -SU: Yes |
| **Network** | |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets |
| Simultaneous Live View | Up to 6 channels |
| API | Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK |
| User/Host | Up to 32 users. 3 user levels: administrator, operator and user |
| Security | Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface |
| Network Storage | NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported. |
| Client | iVMS-4200, Hik-Connect, Hik-Central |
| Web Browser | Plug-in required live view: IE 10, IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+ |
| **Image** | |
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser |
| Day/Night Switch | Day, Night, Auto, Schedule |
| Wide Dynamic Range (WDR) | 120 dB |
| SNR | ≥ 52 dB |
| Image Enhancement | BLC, HLC, 3D DNR |
| Privacy Mask | 4 programmable polygon privacy masks |
| **Interface** | |
| Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port |
| On-Board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB |
| Built-in Microphone | -SU: Yes |
| Audio | -SU: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium -SU: 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm | -SU: 1 input, 1 output (max. 12 VDC, 30 mA) |
| Reset Key | Yes |
| **Event** | |
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception |
| Smart Event | Scene change detection |

| Linkage | Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning |
|---|---|
| **Deep Learning Function** | |
| Face Capture | Yes |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |
| **General** | |
| Power | 12 VDC ± 25%, 0.6 A, max. 7.2 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 8.5 W |
| Material | Cover: aluminum alloy, main body: aluminum alloy |
| Dimension | Ø121.5 mm × 97.6 mm (Ø4.8" × 3.8") |
| Package Dimension | 150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6") |
| Weight | Approx. 550 g (1.2 lb.) |
| With Package Weight | Approx. 800 g (1.8 lb.) |
| Storage Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Language | 33 languages<br>English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| General Function | Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding |
| **Approval** | |
| EMC | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021 |
| Safety | UL: UL 62368-1,<br>CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017 |
| Environment | CE-RoHS: 2011/65/EU |
| Protection | IP67: IEC 60529-2013, IK10: IEC 62262:2002 |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.
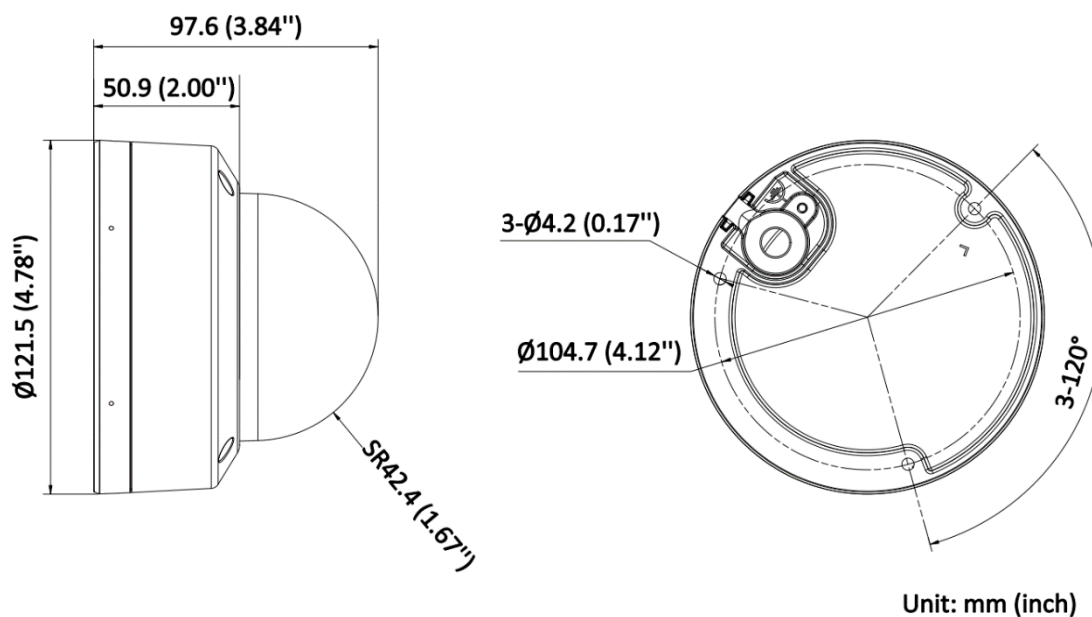
This model has NO SPECIFIC PROTECTION.

| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed. |

## ▪ Available Model

DS-2CD2146G2H-ISU(2.8mm)

DS-2CD2146G2H-ISU(4mm)

DS-2CD2146G2H-I(2.8mm)

DS-2CD2146G2H-I(4mm)

DS-2CD2146G2H-ISU(2.8mm)/Black

## ▪ Dimension



97.6 (3.84")

50.9 (2.00")

Ø121.5 (4.78")

SR42.4 (1.67")

3-Ø4.2 (0.17")

Ø104.7 (4.12")

3-120°

Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1272ZJ-120<br>Wall Mount | DS-1272ZJ-120B<br>Wall Mount | DS-1271ZJ-120<br>Pendant Mount | DS-1275ZJ-SUS<br>Vertical Pole Mount | DS-1276ZJ-SUS<br>Corner Mount |
|---|---|---|---|---|
| | | | | |
| DS-1280ZJ-DM46<br>Junction Box | DS-2280ZJ-WA120<br>Junction Box | DS-2210ZJ-WA-120<br>Pendant Mount | DS-2200ZJ-WA-120<br>Wall Mount | DS-2200ZJ-WAJ-120<br>Wall Mount |
| | | | | |

| DS-1272ZJ-120(Black) Wall Mount | DS-1271ZJ-120(Black) Pendant Mount | DS-1275ZJ-SUS(Black) Vertical Pole Mount | DS-1276ZJ-SUS(Black) Corner Mount | DS-1280ZJ-DM46(Black) Junction Box |
|---|---|---|---|---|
|  |  |  |  |  |

Follow us on social media to get the latest product and solution information.

| in Hikvision | f HikvisionHQ | 🐦 HikvisionHQ | 💬 Hikvision_Global | ▶ Hikvision Corporate Channel | 📷 hikvisionhq |