

## DS-2CD2T46G2H-2I/4I

4 MP AcuSense Powered-by-DarkFighter Fixed Bullet Network Camera



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
- Water and dust resistant (IP67)

## ▪ 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 360°, tilt: 0° to 90°, rotate: 0° to 360°                                                                                                                                 |
| 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°<br>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 ∞<br>4 mm: 2.5 m to ∞                                                                                                                                               |
| DORI                        |                                                                                                                                                                                      |
| DORI                        | 2.8mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m<br>4mm: D: 78 m, O: 31 m, R: 15 m, I: 7 m                                                                                                   |
| Illuminator                 |                                                                                                                                                                                      |
| Supplement Light Type       | IR                                                                                                                                                                                   |
| Supplement Light Range      | 2I: up to 60 m; 4I: up to 80 m                                                                                                                                                       |
| Smart Supplement Light      | Yes                                                                                                                                                                                  |
| IR Wavelength               | 850 nm                                                                                                                                                                               |
| Video                       |                                                                                                                                                                                      |
| Main Stream                 | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)                                                                         |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)                                                                                 |
| Third Stream                | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings. |
| Video Compression           | Main stream: H.265/H.264/H.265+/H.264+<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264<br>*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                                                                                                                                        |

| 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,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,<br>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      | NA                                                                                                                                                                                                                               |
| Built-in Speaker         | NA                                                                                                                                                                                                                               |
| Audio                    | NA                                                                                                                                                                                                                               |
| Alarm                    | NA                                                                                                                                                                                                                               |
| Reset Key                | Yes                                                                                                                                                                                                                              |
| Indicator                | NA                                                                                                                                                                                                                               |
| 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                                                                                                                        |
| 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)                                                                                                                                                                                                                     |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                         |
| Power                            | -2I: 12 VDC $\pm$ 25%, 0.6 A, max. 7.2 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 9 W; -4I: 12 VDC $\pm$ 25%, 0.83 A, max. 10 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 12 W                                             |
| Material                         | Front cover: Metal, body: Metal, bracket: Metal                                                                                                                                                                                                                                                                                                         |
| Dimension                        | 286.7 mm $\times$ 93.1 mm $\times$ 91.2 mm (11.3" $\times$ 3.7" $\times$ 3.6")                                                                                                                                                                                                                                                                          |
| Package Dimension                | 386 mm $\times$ 156 mm $\times$ 155 mm (15.2" $\times$ 6.1" $\times$ 6.1")                                                                                                                                                                                                                                                                              |
| Weight                           | Approx. 1085 g (2.4 lb.)                                                                                                                                                                                                                                                                                                                                |
| With Package Weight              | Approx. 1639 g (3.6 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                                                                                                                                                                                                                                                                     |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                    |
| <b>AE专用</b>                      |                                                                                                                                                                                                                                                                                                                                                         |
| 红外灯数量                            | -2I: 2颗红外灯<br>-4I: 4颗红外灯                                                                                                                                                                                                                                                                                                                                |
| 恒定光圈                             | 支持, F1.0                                                                                                                                                                                                                                                                                                                                                |
| 聚焦方式(focus control modes)        | auto                                                                                                                                                                                                                                                                                                                                                    |
| ABF                              | 不支持                                                                                                                                                                                                                                                                                                                                                     |
| ICR蓝玻璃 (blue glass module)       | 不支持                                                                                                                                                                                                                                                                                                                                                     |
| 内插 (Connector panel)             | 不支持                                                                                                                                                                                                                                                                                                                                                     |
| 螺丝材质 (Screw material)            | SUS304                                                                                                                                                                                                                                                                                                                                                  |

## ▪ 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-2CD2T46G2H-4I(2.8mm)

DS-2CD2T46G2H-4I(4mm)

DS-2CD2T46G2H-2I(2.8mm)

DS-2CD2T46G2H-2I(4mm)

DS-2CD测试

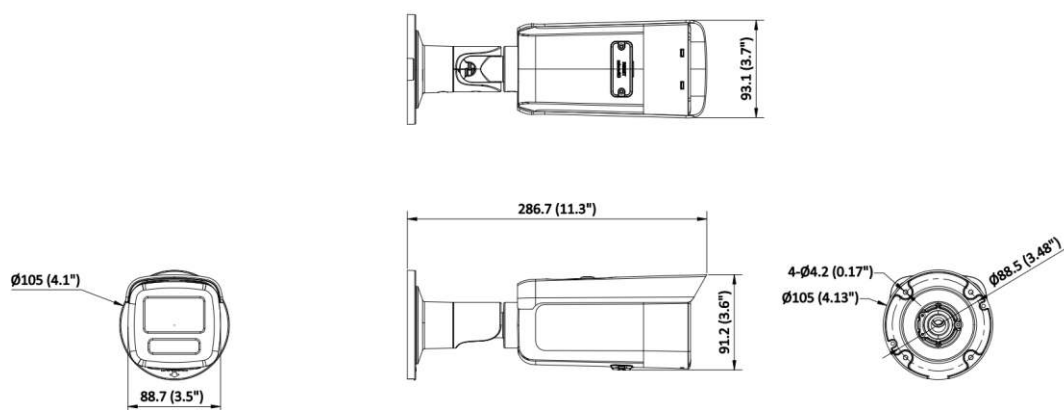
DS-2DE7/测试代码不能生产

DS-2CD2T46G2H-2I(2.8mm)/海康黑

DS-2CD2T46G2H-4I(4mm)(海康黑)

DS-2CD2T46G2H-4I(2.8mm)/海康黑

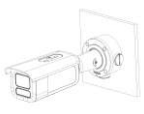
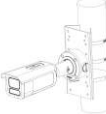
## ▪ Dimension



Unit:mm (inch)

▪ **Accessory**

▪ **Optional**

| DS-1275ZJ-SUS<br>Vertical pole mount                                                | DS-1276ZJ-SUS<br>Corner mount                                                       | DS-1260ZJ<br>Junction box                                                           | DS-1280ZJ-S<br>Junction box                                                           | DS-1275ZJ-S-SUS<br>Vertical pole mount                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |    |    |
|  |  |  |  |  |

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