

DS-2CD2043G2-I(U)

4MP AcuSense Fixed Bullet Network Camera

## AcuSense



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
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)
- Focus on human and vehicle targets classification based on deep learning

Auth. Project Partner :



[www.hikvision.com](http://www.hikvision.com)

## □ Specification

| Camera                      |   |
|-----------------------------|---|
| Image Sensor                | 1/3" Progressive Scan CMOS  |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on   |
| Shutter Speed               | 1/3 s to 1/100,000 s  |
| Slow Shutter                | Yes   |
| P/N                         | P/N   |
| Wide Dynamic Range          | 120 dB  |
| Day & Night                 | ICR Cut   |
| Angle Adjustment            | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°  |
| Lens                        |   |
| Lens Type & FOV             | 2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 122°<br>4 mm, horizontal FOV 84°, vertical FOV 45°, diagonal FOV 100°<br>6 mm, horizontal FOV 52°, vertical FOV 28°, diagonal FOV 61° |
| Aperture                    | F1.6  |
| Lens Mount                  | M12   |
| DORI                        |   |
| DORI                        | 2.8 mm: D: 67 m, O: 26 m, R: 13 m, I: 6 m<br>4 mm: D: 80 m, O: 31 m, R: 16 m, I: 8 m<br>6 mm: D: 120 m, O: 47,m, R: 24,m, I: 12 m   |
| Illuminator                 |   |
| IR Range                    | Up to 40 m  |
| Wavelength                  | 850 nm  |
| Video                       |   |
| Max. Resolution             | 2688 × 1520   |
| Main Stream                 | 50Hz: 25fps (2688 × 1520, 1920 × 1080, 1280 × 720)<br>60Hz: 30fps (2688 × 1520, 1920 × 1080, 1280 × 720)  |
| Sub Stream                  | 50Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60Hz: 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)  |
| Video Compression           | Main stream: H.265/H.264/H.264+/H.265+<br>Sub-stream: H.265/H.264/MJPEG<br>Third stream: H.265/H.264  |
| Video Bit Rate              | 32 Kbps to 8 Mbps   |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile  |
| H.265 Type                  | Main Profile  |
| H.264+                      | Main Stream supports  |
| H.265+                      | Main Stream supports  |
| Bit Rate Control            | CBR/VBR   |
| Scalable Video Coding (SVC) | Yes   |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream   |
| Audio                       |   |
| Environment Noise Filtering | -U: Yes   |
| Audio Sampling Rate         | -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz   |

|                               |   |
|-------------------------------|---|
| Audio Compression             | -U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC  |
| Audio Bit Rate                | -U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16-64 Kbps (AAC-LC)   |
| <b>Network</b>                |   |
| Simultaneous Live View        | Up to 6 channels  |
| API                           | Open Network Video Interface (Profile S, Profile G), ISAPI, SDK   |
| Protocols                     | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, WebSocket, WebSockets   |
| 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)   |
| 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+<br>Local service: Chrome 57.0+, Firefox 52.0+  |
| <b>Image</b>                  |   |
| Day/Night Switch              | Day, Night, Auto, Schedule  |
| Image Enhancement             | BLC, HLC, 3D DNR  |
| Image Parameters Switch       | Yes   |
| Image Settings                | Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser   |
| <b>Interface</b>              |   |
| Built-in Microphone           | -U: Yes   |
| On-board Storage              | Built-in microSD, up to 512 GB  |
| Hardware Reset                | Yes   |
| Communication Interface       | 1 RJ45 10M/100M self-adaptive Ethernet port   |
| <b>Event</b>                  |   |
| Basic Event                   | Motion detection (human and vehicle targets classification), video tampering alarm, exception   |
| Face Detection                | Yes   |
| <b>Deep Learning Function</b> |   |
| Perimeter Protection          | Line crossing detection, intrusion detection<br>Supports human and vehicle targets classification   |
| <b>General</b>                |   |
| Linkage Method                | Upload to FTP/memory card/NAS, notify surveillance center, trigger record, trigger capture  |
| Web Client 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<br>Anti-flicker, heartbeat, password reset via e-mail, pixel counter<br>-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| General Function              |   |
| Storage Conditions            |   |

|                                  |  |
|----------------------------------|--|
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)  |
| Power Supply                     | 12 VDC ± 25%, reverse polarity protection<br>PoE: (802.3af, 36 V to 57 V), Class 3   |
| Power Consumption and Current    | 12 VDC, 0.5 A, max. 6 W<br>PoE (802.3af, 36 V to 57 V), 0.2 A to 0.13 A, max. 7 W  |
| Power Interface                  | Ø5.5 mm coaxial power plug   |
| Camera Dimension                 | Ø70 × 161.7 mm (Ø2.76" × 6.37")  |
| Package Dimension                | 216 × 121 × 118 mm (8.6" × 4.8" × 4.7")  |
| Camera Weight                    | Approx. 490 g (1.1 lb.)  |
| With Package Weight              | Approx. 724 g (1.6 lb.)  |
| <b>Approval</b>                  |  |
| EMC                              | FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015) |
| Safety                           | UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)  |
| Environment                      | CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)  |
| Protection                       | IP67 (IEC 60529-2013)  |

## Available Model

DS-2CD2043G2-I (2.8/4/6 mm)

DS-2CD2043G2-IU (2.8/4/6 mm)

## 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.

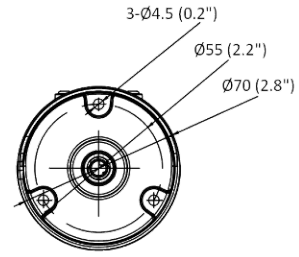
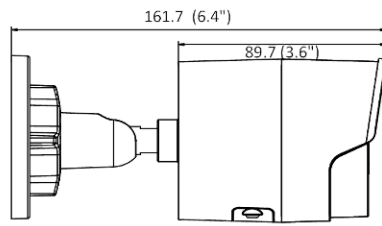
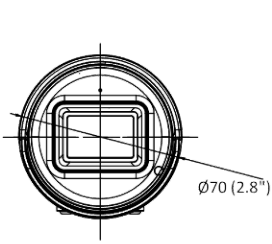
This model has NO SPECIFIC PROTECTION.

| 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.  |

Auth. Project Partner :



## Dimension



Unit: mm (inch)

□ **Accessory**

□ **Optional**

**DS-1280ZJ-XS  
Junction Box**



**Auth. Project Partner :**

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