

## DS-2CD3023G2-LIU

### 2 MP Acusense Smart Hybrid Light Fixed Bullet Network Camera



Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 2 MP resolution
- Acusense: Focus on human and vehicle classification based on deep learning
- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes
- Built-in arrayed dual-microphone for real-time high quality audio security
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67) and vandal-resistant (IK10)

## ▪ Specification

| Model       |                        | DS-2CD3023G2-LIU  |
|-------------|------------------------|---|
| Camera      | Image Sensor           | 1/2.7" Progressive Scan CMOS  |
|             | Max. Resolution        | 1920 × 1080   |
|             | Min. Illumination      | Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light   |
|             | 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, 4, and 6 mm optional   |
|             | Focal Length & FOV     | 2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 132°<br>4 mm, horizontal FOV 91°, vertical FOV 46°, diagonal FOV 110°<br>6 mm, horizontal FOV 56°, vertical FOV 30°, diagonal FOV 65° |
|             | Lens Mount             | M12   |
|             | Iris Type              | Fixed   |
|             | Aperture               | F1.6  |
|             | Depth of Field         | 2.8 mm: 0.9 m to ∞<br>4 mm: 1.3 m to ∞<br>6 mm: 2.8 m to ∞  |
| DORI        | DORI                   | 2.8 mm, D: 40 m, O: 16 m, R: 8 m, I: 4 m<br>4 mm, D: 56 m, O: 22 m, R: 11 m, I: 5 m<br>6 mm, D: 85 m, O: 33 m, R: 17 m, I: 8 m  |
| Illuminator | Supplement Light Type  | IR, White Light   |
|             | Supplement Light Range | Up to 40 m  |
|             | Smart Supplement Light | Yes   |
|             | IR Wavelength          | 850 nm  |
| Video       | Main Stream            | 50 Hz:<br>25 fps (1920 × 1080, 1280 × 720)<br>60 Hz:<br>30 fps (1920 × 1080, 1280 × 720)  |
|             | Sub-Stream             | 50 Hz:<br>25 fps (640 × 480, 640 × 360)<br>60 Hz:<br>30 fps (640 × 480, 640 × 360)  |
|             | Third Stream           | 50 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings.        |
|             | Fourth Stream          | 50 Hz:  |

|         |                             |  |
|---------|-----------------------------|--|
|         |                             | 10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>10 fps (1280 × 720, 640 × 480, 640 × 360)<br>*Fourth stream is supported under certain settings.  |
|         | 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,<br>Fourth stream: H.265/H.264/MJPEG,<br>*Third stream and fourth stream are 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   |
|         | Scalable Video Coding (SVC) | H.264 and H.265 encoding   |
|         | Bit Rate Control            | CBR, VBR   |
|         | Region of Interest (ROI)    | 5 fixed regions for main stream and sub-stream   |
|         | Target Cropping             | Yes  |
| Audio   | Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC   |
|         | Audio Bit Rate              | 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         | 8 kHz/16 kHz/32 kHz/48 kHz   |
|         | Environment Noise Filtering | Yes  |
| Network | Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets  |
|         | Simultaneous Live View      | Up to 6 channels   |
|         | API                         | ONVIF (Profile S, Profile G), ISAPI, SDK, ISUP   |
|         | Security                    | Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface |
|         | User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user   |
|         | Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),<br>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 11,<br>Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+   |
| Image   | Image                       | Yes  |

|                              |  |   |
|------------------------------|--|---|
|                              | Parameters<br>Switch                   |   |
|                              | Day/Night<br>Switch                    | Day,Night,Auto,Schedule   |
|                              | Wide Dynamic<br>Range (WDR)            | 120 dB  |
|                              | SNR                                    | ≥ 52 dB   |
| Interface                    | Image<br>Enhancement                   | BLC,HLC,3D DNR  |
|                              | Privacy Mask                           | 8 programmable polygon privacy masks  |
|                              | Ethernet<br>Interface                  | 1 RJ45 10 M/100 M self-adaptive Ethernet port   |
|                              | On-Board<br>Storage                    | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB   |
|                              | Reset Key                              | Yes   |
| Event                        | Audio                                  | Built-in Microphone: Arrayed dual-microphone  |
|                              | Basic Event                            | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception   |
|                              | Smart Event                            | Unattended baggage detection, object removal detection, loitering detection, people gathering detection, fast moving detection, parking detection, video quality diagnosis  |
| Deep<br>Learning<br>Function | Linkage                                | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture   |
|                              | Face Capture                           | Yes   |
|                              | Perimeter<br>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, PoE: IEEE 802.3af, Class 3, max. 8 W  |
|                              | Material                               | Metal   |
|                              | Dimension                              | Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94")  |
|                              | Package<br>Dimension                   | 234 mm × 120 mm × 117 mm (9.21" × 4.72" × 4.61")  |
|                              | Weight                                 | Approx. 515 g (1.1 lb.)   |
|                              | With Package<br>Weight                 | Approx. 715 g (1.6 lb.)   |
|                              | Storage<br>Conditions                  | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)   |
|                              | Startup and<br>Operating<br>Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)   |
|                              | Language                               | 33 languages: 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<br>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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015 |
|                 | Safety      | CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1:2005, LOA: IEC/EN 60950-1   |
|                 | Environment | CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006  |
|                 | 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.

| <b>Level</b>           | <b>Description</b>   |
|------------------------|--|
| 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

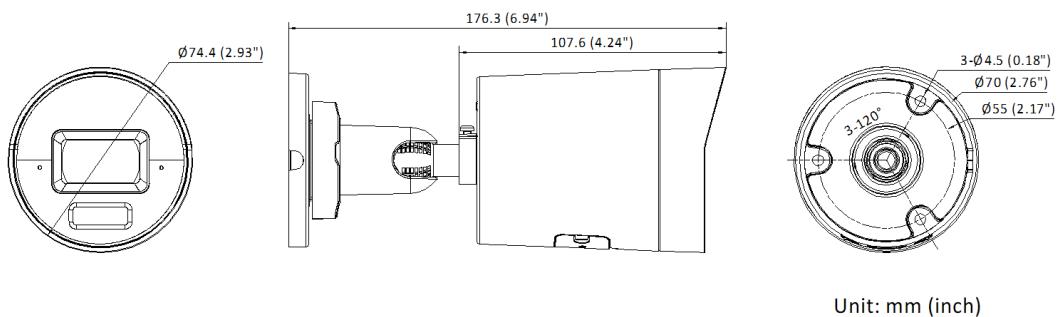
DS-2CD3023G2-LIU(2.8mm)

DS-2CD3023G2-LIU(4mm)

DS-2CD3023G2-LIU(6mm)

DS-2CD3023G2-LIU(4mm)(India-L)

## ▪ Dimension

**▪ Accessory****▪ Optional**

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

# See Far, Go Further



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