

**DS-2CD2023G2-LI2U/S(L)(RB)****2 MP Acusense Strobe Light and Audible Warning & Smart Hybrid Light Fixed Bullet Network Camera**

# AcuSense



- High quality imaging with 2 MP resolution
- AcuSense: Focus on person 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 back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67)

## ▪ Specification

| 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: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (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.264+/H.265+,<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                                                                                                                                                                                      |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                          |

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bit Rate Control            | CBR, VBR                                                                                                                                                                                                                             |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream                                                                                                                                                                                        |
| Target Cropping             | Yes                                                                                                                                                                                                                                  |
| <b>Audio</b>                |                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                  |
| <b>Network</b>              |                                                                                                                                                                                                                                      |
| 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 (ProfileS, ProfileG), ISAPI, SDK, ISUP                                                                                                                                                                                         |
| User/Host                   | Up to 32 users<br>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 1.1/1.2/1.3, 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 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+                                                         |
| <b>Image</b>                |                                                                                                                                                                                                                                      |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                  |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                           |
| Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                               |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                              |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                     |
| Privacy Mask                | 8 programmable polygon privacy masks                                                                                                                                                                                                 |
| <b>Interface</b>            |                                                                                                                                                                                                                                      |
| 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                                                                                                                                                    |
| Reset Key                   | Yes                                                                                                                                                                                                                                  |
| Built-in Speaker            | 1 built-in speaker, Max. power consumption: 2 W, max. sound pressure level: 10 cm: 110 dB.                                                                                                                                           |
| Audio                       | Built-in Microphone: Arrayed dual-microphone                                                                                                                                                                                         |
| <b>Event</b>                |                                                                                                                                                                                                                                      |
| Basic Event                 | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                          |
| Smart Event                 | Face detection                                                                                                                                                                                                                       |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, audible warning, flashing light                                                                                                                                                                                                            |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Perimeter Protection             | Line crossing, intrusion<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                                                    |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 1 A, max. 12 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3at, Class 4, max. 16 W                                                                                                                                                                                                      |
| Material                         | Metal                                                                                                                                                                                                                                                                                                                                                 |
| Dimension                        | $\varnothing$ 74.4 mm $\times$ 176.3 mm ( $\varnothing$ 2.93" $\times$ 6.94")                                                                                                                                                                                                                                                                         |
| Package Dimension                | 234 mm $\times$ 120 mm $\times$ 117 mm (9.21" $\times$ 4.72" $\times$ 4.61")                                                                                                                                                                                                                                                                          |
| Weight                           | Approx. 510 g (1.1 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 755 g (1.7 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: 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                                                                                                                                                                                                                                                                   |
| Flashing Light                   | SRB models: Red and Blue Light<br>Other models: White Light                                                                                                                                                                                                                                                                                           |
| <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,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7,<br>KC: KN32: 2015, KN35: 2015                                                                                                                                      |
| Safety                           | CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>LOA: IEC/EN 60950-1                                                                                                                                                                                                                                                              |
| Environment                      | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                                                                                                                                                                                                                                                      |
| Protection                       | IP67: IEC 60529-2013                                                                                                                                                                                                                                                                                                                                  |

## ▪ 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.

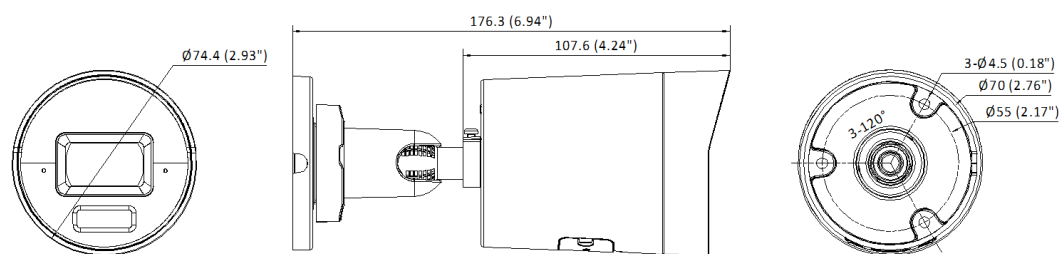
| Level                | Description                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD2023G2-LI2U/SL(2.8mm)  
 DS-2CD2023G2-LI2U/SL(4mm)  
 DS-2CD2023G2-LI2U/SL(6mm)  
 DS-2CD2023G2-LI2U/SL(2.8mm)(BLACK)  
 DS-2CD2023G2-LI2U/SRB(2.8mm)  
 DS-2CD2023G2-LI2U/SRB(4mm)  
 DS-2CD2023G2-LI2U/SRB(6mm)  
 DS-2CD2023G2-LI2U/SRB(2.8mm)(BLACK)

## ▪ Dimension



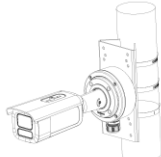
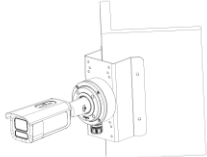
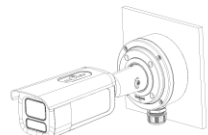
Unit: mm (inch)

▪ **Accessory**

▪ **Optional**

| DS-1275ZJ-SUS                                                                     | DS-1276ZJ-SUS                                                                     | DS-1280ZJ-XS                                                                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |

▪ **Installation Methods**

| Vertical Pole<br>Mounting<br>DS-1275ZJ-SUS+DS-1280ZJ-XS                            | Corner Mounting<br>DS-1276ZJ-SUS+DS-1280ZJ-XS                                      | Junction Box<br>DS-1280ZJ-XS                                                        |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |

# See Far, Go Further



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