

**DS-2CD2048G2-LIK**  
**4 MP Dual Illumination Fixed Mini Bullet Network Camera**



- High quality imaging with 4 MP resolution
- Smart Dual-Light: advanced technology with long range
- Clear imaging against strong back light due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle classification based on deep learning
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)

## ▪ Specification

| Model       |                        | DS-2CD2048G2-LIK                                                                                                                                                                         |
|-------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera      | Image Sensor           | 1/3" Progressive Scan CMOS                                                                                                                                                               |
|             | Max. Resolution        | 2688 × 1520                                                                                                                                                                              |
|             | Min. Illumination      | Color: 0.001 Lux @ (F1.0, 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 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, White Light                                                                                                                                                                          |
|             | Supplement Light Range | Up to 40 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>*The 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                                                                                                                                                                             |
|             | 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           | -U: G.711/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 Kbps to 64 Kbps (AAC-LC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)                                                                                                                                                                                                                                            |
|           | Audio Sampling Rate         | -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                               |
|           | Environment Noise Filtering | -U: 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, SRTP, SFTP                                                                                                                                                                                               |
|           | Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                                                                      |
|           | API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                                                      |
|           | User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                    |
|           | Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address) |
|           | Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)                                                                                                                                                                                                                                                                                                                                 |
|           | Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                                                                   |
| Image     | 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 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                                                                                                                                                                                                                                                                                                                                                            |
|           | Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                                                                                                                      |
|           | SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                               |
|           | Wide Dynamic Range (WDR)    | 120 dB                                                                                                                                                                                                                                                                                                                                                                                |
| Interface | Privacy Mask                | 4 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                                                  |
|           | 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              | -U: Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Reset Key                        | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Event                  | Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                                                                                                                                                           |
|                        | Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email                                                                                                                                                                                                                                             |
|                        | Smart Event                      | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), scene change detection                                                                                                                                                     |
| Deep Learning Function | Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                   |
| General                | Power                            | 12 VDC $\pm$ 25%, 0.7 A, max. 8.5 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 10 W                                                                                                                                                                                                      |
|                        | Material                         | Front cover: Metal, body: Metal, bracket: Metal                                                                                                                                                                                                                                                                                                       |
|                        | Dimension                        | $\varnothing$ 74.4 mm $\times$ 179.2 mm ( $\varnothing$ 2.9" $\times$ 7.1")                                                                                                                                                                                                                                                                           |
|                        | Package Dimension                | 234 mm $\times$ 120 mm $\times$ 117 mm (9.2" $\times$ 4.7" $\times$ 4.6")                                                                                                                                                                                                                                                                             |
|                        | Weight                           | Approx. 525 g (1.2 lb.)                                                                                                                                                                                                                                                                                                                               |
|                        | With Package Weight              | Approx. 750 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)                                                                                                                                                                                                                                                                             |
|                        | General Function                 | Heartbeat, mirror, password reset via email, pixel counter, anti-banding                                                                                                                                                                                                                                                                              |
|                        | 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 |
| Approval               | EMC                              | CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014, FCC: 47 CFR Part 15, Subpart B                                                                                                                                                                                                                     |
|                        | 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                                                                                                                                                                                                                                                                                                                                  |

## ▪ 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.

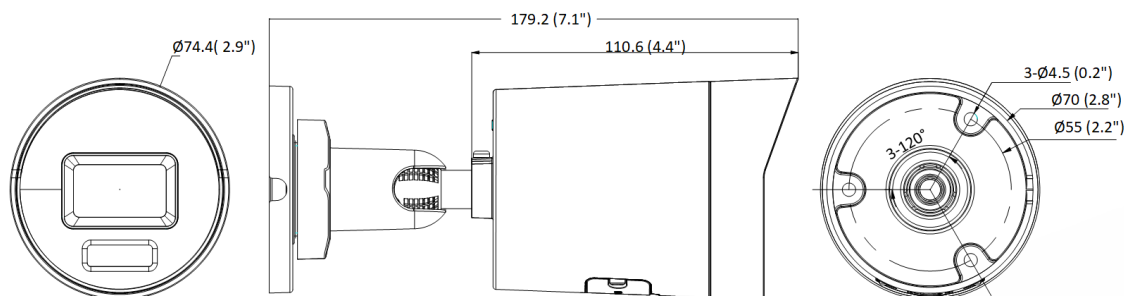
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD2048G2-LIK(2.8mm)

DS-2CD2048G2-LIK(4mm)

#### ▪ Dimension

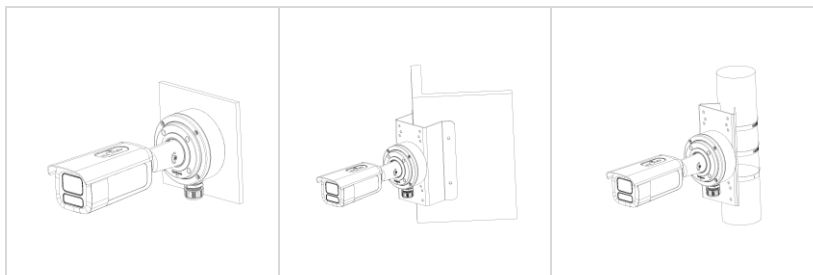


Unit: mm (inch)

#### ▪ Accessory

##### ▪ Optional

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



# See Far, Go Further



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