

**DS-2CD1047G2-L(UF)**  
**4 MP ColorVu Fixed Bullet Network Camera**

ColorVu



Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- High quality imaging with 4 MP resolution
- 24/7 colorful imaging
- Support Human and Vehicle Detection
- Water and dust resistant (IP67)
- Clear imaging even with strong back lighting due to 120 dB WDR
- Efficient H.265+ compression technology
- Support on-board storage up to 256GB (SD card slot) (Optional)
- Built-in microphone for real-time audio security (Optional)

## ▪ Specification

| Camera                      |                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/3" Progressive Scan CMOS                                                                                                               |
| Max. Resolution             | 2560 × 1440                                                                                                                              |
| Shutter Time                | 1/3 s to 1/100,000 s                                                                                                                     |
| Min. Illumination           | Color: 0.001 Lux @ (F1.0, AGC ON), 0 Lux with light                                                                                      |
| Day & Night                 | 24/7 color imaging                                                                                                                       |
| 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: 96°, vertical FOV: 52°, diagonal FOV: 113°<br>4 mm, horizontal FOV: 75°, vertical FOV: 40°, diagonal FOV: 89°    |
| Lens Mount                  | M12                                                                                                                                      |
| Iris Type                   | Fixed                                                                                                                                    |
| Aperture                    | F1.0                                                                                                                                     |
| Depth of Field              | 2.8 mm: 2 m to ∞<br>4 mm: 2.7 m to ∞                                                                                                     |
| DORI                        |                                                                                                                                          |
| DORI                        | 2.8 mm, D: 64 m, O: 25 m, R: 12 m, I: 6 m<br>4 mm, D: 82 m, O: 32 m, R: 16 m, I: 8 m                                                     |
| Illuminator                 |                                                                                                                                          |
| Supplement Light Type       | White Light                                                                                                                              |
| Supplement Light Range      | Up to 30 m                                                                                                                               |
| Smart Supplement Light      | Yes                                                                                                                                      |
| Video                       |                                                                                                                                          |
| Main Stream                 | 50 Hz:<br>20 fps (2560 × 1440)<br>25 fps (1920 × 1080, 1280 × 720)<br>60 Hz:<br>20 fps (2560 × 1440)<br>24 fps (1920 × 1080, 1280 × 720) |
| Sub-Stream                  | 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 24 fps (1280 × 720, 640 × 480, 640 × 360)                                     |
| Video Compression           | Main stream: H.265+/H.265/H.264+/H.264<br>Sub-stream: H.265/H.264/MJPEG                                                                  |
| 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                                                                                                                                 |
| Region of Interest (ROI)    | 1 fixed region(s) for main stream                                                                                                        |
| Audio                       |                                                                                                                                          |
| Audio Type                  | -U: Mono sound                                                                                                                           |
| Environment Noise Filtering | -U: Yes                                                                                                                                  |
| Audio Sampling Rate         | -U: 8 kHz/16 kHz                                                                                                                         |
| Audio Compression           | -U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC                                                                                   |

|                                  |                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Bit Rate                   | -U: 64 Kbps (G.711 ulaw)/64 Kbps (G.711 alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)                                                                                          |
| <b>Network</b>                   |                                                                                                                                                                                                                        |
| Protocols                        | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP                                                                                                                                         |
| Simultaneous Live View           | Up to 6 channels                                                                                                                                                                                                       |
| API                              | Open Network Video Interface (Profile S, Profile T, Profile G (only -F model supports)), ISAPI, SDK                                                                                                                    |
| User/Host                        | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                     |
| Security                         | Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address) |
| Client                           | iVMS-4200, Hik-Connect                                                                                                                                                                                                 |
| Web Browser                      | Plug-in required live view: IE 10, IE 11<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                                                                 |
| <b>Image</b>                     |                                                                                                                                                                                                                        |
| Wide Dynamic Range (WDR)         | 120 dB                                                                                                                                                                                                                 |
| SNR                              | ≥ 52 dB                                                                                                                                                                                                                |
| Day/Night Switch                 | Day, Night, Auto, Schedule                                                                                                                                                                                             |
| Image Enhancement                | BLC, HLC, 3D DNR                                                                                                                                                                                                       |
| Image Settings                   | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser                                                                                            |
| Privacy Mask                     | 4 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 256 GB                                                                                                                                      |
| Built-in Microphone              | -U: Yes                                                                                                                                                                                                                |
| Reset Key                        | -F: Yes                                                                                                                                                                                                                |
| <b>Event</b>                     |                                                                                                                                                                                                                        |
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception                                                                                            |
| Linkage                          | Upload to FTP/memory card (-F), notify surveillance center, send email, trigger recording (-F), trigger capture                                                                                                        |
| <b>General</b>                   |                                                                                                                                                                                                                        |
| Power                            | 12 VDC ± 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug<br>PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W                                                                                          |
| Material                         | Aluminum alloy body                                                                                                                                                                                                    |
| Dimension                        | Ø76.6 mm × 164.4 mm (Ø3" × 6.5")                                                                                                                                                                                       |
| Package Dimension                | 234 mm × 120 mm × 117 mm (9.2" × 4.7" × 4.6")                                                                                                                                                                          |
| Weight                           | -L: Approx. 410 g (0.9 lb.)<br>-LUF: Approx. 430 g (0.9 lb.)                                                                                                                                                           |
| With Package Weight              | -L: Approx. 630 g (1.4 lb.)<br>-LUF: Approx. 650 g (1.4 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         | English, Ukrainian                                                                                                                                                                                   |
| General Function | Heartbeat, anti-banding, mirror, password protection, password reset via email                                                                                                                       |
| <b>Approval</b>  |                                                                                                                                                                                                      |
| EMC              | FCC: 47 CFR Part 15, Subpart B<br>CE-EMC: EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013 + A1: 2019, EN 50130-4: 2011 + A1: 2014<br>RCM: AS/NZS CISPR 32: 2015<br>KC: KN32: 2015, KN35: 2015 |
| Safety           | UL: UL 62368-1<br>CB: IEC 62368-1: 2014 + A11<br>CE-LVD: EN 62368-1: 2014/A11: 2017<br>BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005                                                                |
| 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.

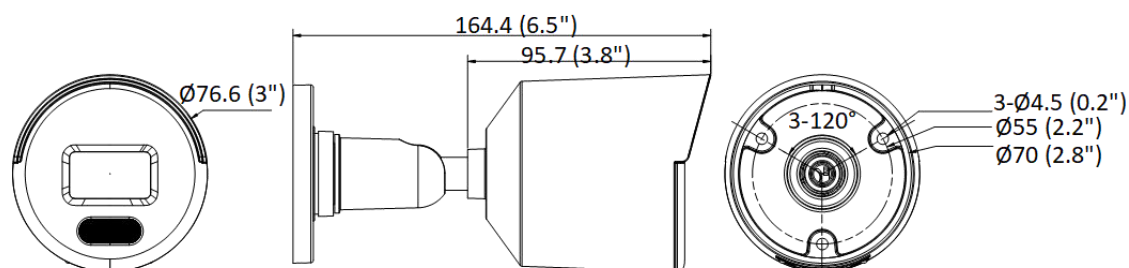
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD1047G2-LUF (2.8/4 mm)

DS-2CD1047G2-L (2.8/4 mm)

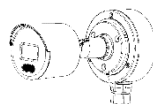
## ▪ Dimension



Unit: mm (inch)

- Accessory
- Optional

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



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