

## DS-2CD1163G2-LIU(F) 6 MP Smart Hybrid Light Fixed Dome Network Camera



- High quality imaging with 6 MP resolution
- Support Human and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range
- Efficient H.265+ compression technology
- Support on-board storage up to 512 GB (SD card slot) (Optional)
- Built-in microphone for real-time audio security
- Water and dust resistant (IP67) and vandal resistant (IK08)

## ▪ Specification

| Camera                      |                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/2.4" Progressive Scan CMOS                                                                                                                 |
| Max. Resolution             | 3200 × 1800                                                                                                                                  |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR                                                                                        |
| Shutter Time                | 1/3 s to 1/100,000 s                                                                                                                         |
| Day & Night                 | IR cut filter                                                                                                                                |
| Angle Adjustment            | Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°                                                                                         |
| Lens                        |                                                                                                                                              |
| Lens Type                   | Fixed focal lens, 2.8 and 4 mm optional                                                                                                      |
| Focal Length & FOV          | 2.8 mm, horizontal FOV 105°, vertical FOV 55°, diagonal FOV 127°<br>4 mm, horizontal FOV 78°, vertical FOV 38°, diagonal FOV 96°             |
| Lens Mount                  | M12                                                                                                                                          |
| Iris Type                   | Fixed                                                                                                                                        |
| Aperture                    | F1.6                                                                                                                                         |
| DORI                        |                                                                                                                                              |
| DORI                        | 2.8 mm, D: 76 m, O: 30 m, R: 15 m, I: 7 m<br>4 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m                                                       |
| Illuminator                 |                                                                                                                                              |
| Supplement Light Type       | IR, White Light                                                                                                                              |
| Supplement Light Range      | Up to 30 m                                                                                                                                   |
| Smart Supplement Light      | Yes                                                                                                                                          |
| IR Wavelength               | 850 nm                                                                                                                                       |
| Video                       |                                                                                                                                              |
| Main Stream                 | 50 Hz:<br>20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream                  | 50 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 20 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 16 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 for main stream                                                                                                               |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                     |
| Audio                       |                                                                                                                                              |
| Audio Type                  | Mono sound                                                                                                                                   |
| Environment Noise Filtering | Yes                                                                                                                                          |
| Audio Sampling Rate         | 8 kHz/16 kHz                                                                                                                                 |
| Audio Compression           | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC                                                                                           |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)                                |

| Network                          |                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) |
| Simultaneous Live View           | Up to 6 channels                                                                                                                                                                                                       |
| API                              | Open Network Video Interface (Profile S, Profile T, Profile G (only -F model supports)), ISAPI, SDK, Hik-Connect                                                                                                       |
| Protocols                        | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP, UPnP                                                                                                                                   |
| User/Host                        | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                     |
| 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+, Edge 89+                                                                                                                      |
| Image                            |                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                   |
| Interface                        |                                                                                                                                                                                                                        |
| Ethernet Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                          |
| On-Board Storage                 | -F: Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB                                                                                                                                  |
| Built-in Microphone              | Yes                                                                                                                                                                                                                    |
| Reset Key                        | -F: Yes                                                                                                                                                                                                                |
| Event                            |                                                                                                                                                                                                                        |
| 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), send email, notify surveillance center, trigger recording (-F), trigger capture                                                                                                        |
| General                          |                                                                                                                                                                                                                        |
| Power                            | 12 VDC ± 25%, 0.5 A, max. 6 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 7.5 W                                                                                      |
| Material                         | Metal & Plastic                                                                                                                                                                                                        |
| Dimension                        | Ø121.4 mm × 97.6 mm (Ø4.78" × 3.84")                                                                                                                                                                                   |
| Package Dimension                | 150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")                                                                                                                                                                          |
| Weight                           | Approx. 550 g (1.2 lb.)                                                                                                                                                                                                |
| With Package Weight              | Approx. 800 g (1.8 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              | 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 |
| 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, IK08: 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.

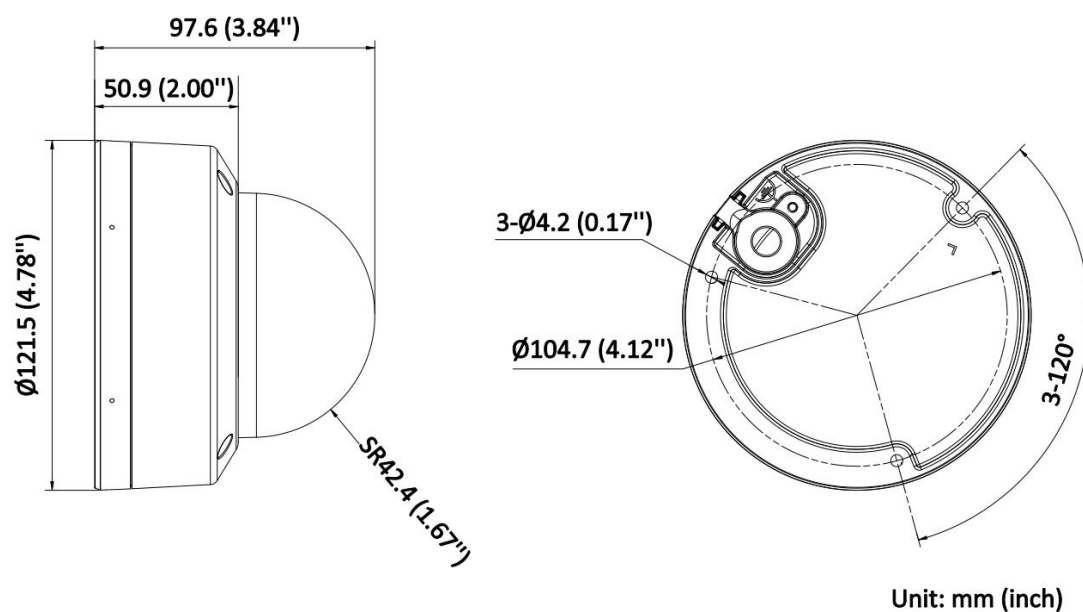
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD1163G2-LIU (2.8/4 mm)

DS-2CD1163G2-LIUF (2.8/4 mm)

## Dimension



## Accessory

### Optional

| DS-1272ZJ-120<br>Wall Mount                                                         | DS-1272ZJ-120B<br>Wall Mount                                                        | DS-1271ZJ-120<br>Pendant Mount                                                      | DS-1275ZJ-SUS<br>Vertical Pole Mount                                                  | DS-1276ZJ-SUS<br>Corner Mount                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-1280ZJ-DM46<br>Junction Box                                                      | DS-2210ZJ-WA-120<br>Pendant Mount                                                   | DS-2200ZJ-WA-120<br>Wall Mount                                                      | DS-2200ZJ-WAJ-120<br>Wall Mount                                                       | DS-2280ZJ-WA120<br>Junction Box                                                       |
|  |  |  |  |  |

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