

## DS-2CD1663G2-LIZ(S)U

### 6 MP Smart Hybrid Light Varifocal Bullet Network Camera



- High quality imaging with 6 MP resolution
- Support Human and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range
- 2.8 to 12 mm motorized varifocal lens for easy installation and monitoring
- Up to 512 GB SD card slot for storage
- Efficient H.265+ compression technology
- Clear imaging even with strong back lighting due to 120 dB WDR technology
- Built-in microphone for real-time audio security
- Water and dust resistant (IP67)

## ▪ 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 70°, rotate: 0° to 355°                                                                                         |
| Lens                        |                                                                                                                                              |
| Lens Type                   | Varifocal lens, motorized lens, 2.8 to 12 mm                                                                                                 |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 106° to 35.6°, vertical FOV 55.9° to 20°, diagonal FOV 127.4° to 40.8°                                          |
| Lens Mount                  | Ø14                                                                                                                                          |
| Iris Type                   | Fixed                                                                                                                                        |
| Aperture                    | F1.6                                                                                                                                         |
| DORI                        |                                                                                                                                              |
| DORI                        | D: 68 to 200 m, O: 27 to 79 m, R: 13.6 to 40 m, I: 6.8 to 20 m                                                                               |
| Illuminator                 |                                                                                                                                              |
| Supplement Light Type       | IR, White Light                                                                                                                              |
| Supplement Light Range      | Up to 50 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                                                                                                                                     |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                     |
| Region of Interest (ROI)    | 1 fixed region for main stream                                                                                                               |
| Audio                       |                                                                                                                                              |
| Audio Type                  | Mono sound                                                                                                                                   |
| 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)                                |
| Audio Sampling Rate         | 8 kHz/16 kHz                                                                                                                                 |
| Environment Noise Filtering | Yes                                                                                                                                          |

| Network                  |                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP, UPnP                                                                                                                                                                                                  |
| Simultaneous Live View   | Up to 6 channels                                                                                                                                                                                                                                                                      |
| API                      | Open Network Video Interface (Profile S, Profile G, Profile T), 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+, Edge 89+                                                                                                                                                                                     |
| Image                    |                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                            |
| Wide Dynamic Range (WDR) | 120 dB                                                                                                                                                                                                                                                                                |
| SNR                      | ≥ 52 dB                                                                                                                                                                                                                                                                               |
| Image Enhancement        | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                      |
| Privacy Mask             | 4 programmable polygon privacy masks                                                                                                                                                                                                                                                  |
| Interface                |                                                                                                                                                                                                                                                                                       |
| 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      | Yes                                                                                                                                                                                                                                                                                   |
| Audio                    | -S: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium<br>-S: 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm                    | -S: 1 input, 1 output (max. 12 VDC, 30 mA)                                                                                                                                                                                                                                            |
| 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/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output (-S), audible warning                                                                                                                                     |
| General                  |                                                                                                                                                                                                                                                                                       |
| Power                    | 12 VDC ± 25%, 0.88 A, max. 10.5 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 12 W                                                                                                                                                  |
| Material                 | Metal & Plastic                                                                                                                                                                                                                                                                       |
| Dimension                | Ø105 mm × 252 mm (Ø4.1" × 9.9")                                                                                                                                                                                                                                                       |
| Package Dimension        | 315 mm × 137 mm × 141 mm (5.5" × 5.5" × 6.1")                                                                                                                                                                                                                                         |
| Weight                   | Approx. 750 g (1.7 lb.)                                                                                                                                                                                                                                                               |
| With Package Weight      | Approx. 1075 g (2.4 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 by 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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7 |
| Safety                           | UL: UL 62368-1, CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005                                               |
| Environment                      | CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, 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.

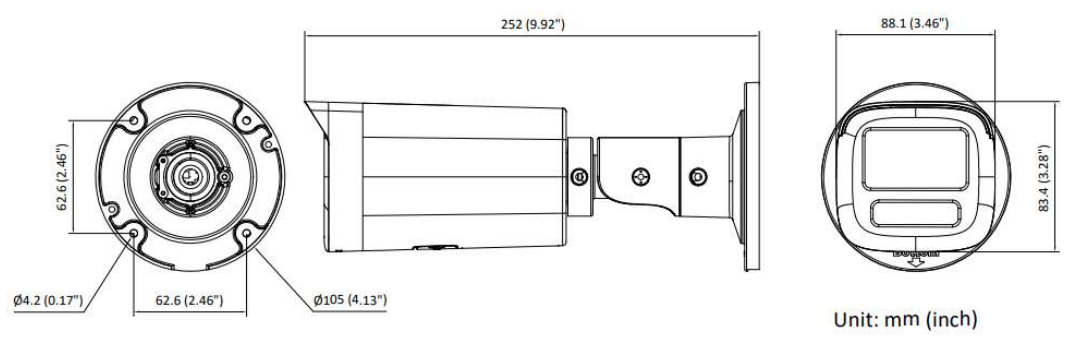
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-2CD1663G2-LIZU (2.8 to 12 mm)

DS-2CD1663G2-LIZSU (2.8 to 12 mm)

Dimension



Accessory

Optional

| DS-1275ZJ-S-SUS<br>Vertical Pole Mount                                              | DS-1276ZJ-SUS<br>Corner Mount                                                       | DS-1260ZJ<br>Junction Box                                                           | DS-1275ZJ-SUS<br>Vertical Pole Mount                                                  | DS-1280ZJ-S<br>Junction Box                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-1275ZJ-SUS<br>Vertical Pole Mount                                                |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |

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