# HIKVISION®

## 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 (Optional )
- 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: 20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 20 fps (1280 × 720, 640 × 480, 640 × 360) |
| Video Compression | Main stream: H.265+/H.265/H.264+/H.264, 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 | -U: 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 |
| **Approval** | |
| 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-LIZ(U) (2.8 to 12 mm)
DS-2CD1663G2-LIZS(U) (2.8 to 12 mm)

## ▪ Dimension



252 (9.92")

88.1 (3.46")

62.6 (2.46")

83.4 (3.28")

Ø4.2 (0.17")     62.6 (2.46")     Ø105 (4.13")

Unit: mm (inch)
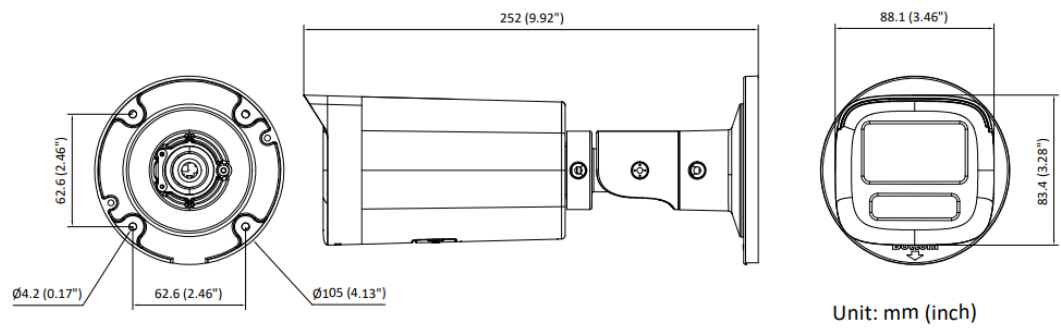
## ▪ Accessory

## ▪ Optional

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

| DS-1275ZJ-SUS Vertical Pole Mount |
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