

## DS-2CD2783G2-LIZS2U

8 MP Acusense Smart Hybrid Light Motorized Varifocal Dome Network Camera

## AcuSense



- High quality imaging with 8 MP resolution
- Acusense: Focus on human and vehicle classification based on deep learning
- Smart Hybrid Light: Integrates IR and White lights, 4 supplemental lighting modes
- Built-in dual microphone for real-time high quality audio security
- Clear imaging against strong back light due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Motorized varifocal lens for easy installation and monitoring
- Water and dust resistant (IP67) and vandal-resistant (IK10)

## ▪ Specification

| Camera                      |  |
|-----------------------------|--|
| Image Sensor                | 1/2.8" Progressive Scan CMOS   |
| Max. Resolution             | 3840 × 2160  |
| 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                   | Varifocal lens, motorized lens, 2.8 to 12 mm   |
| Focal Length & FOV          | 2.8 to 12 mm, horizontal FOV 106.5° to 30.2°, vertical FOV 55.7° to 17°, diagonal FOV 128.5° to 34.7°  |
| Lens Mount                  | Ø14  |
| Iris Type                   | Fixed  |
| Aperture                    | F1.6   |
| DORI                        |  |
| DORI                        | 2.8 to 12 mm: D: 88.3 m to 289.7 m, O: 35 m to 114.9 m, R: 17.7 m to 57.9 m, I: 8.8 m to 29.0 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:<br>20 fps (3840 × 2160)<br>25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>20 fps (3840 × 2160)<br>30 fps (3200 × 1800, 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>*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 16 Mbps   |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile   |
| H.265 Type                  | Main Profile   |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding   |
| Bit Rate Control            | CBR, VBR   |
| Region of Interest (ROI)    | 1 fixed region for main stream and sub-stream  |
| Target Cropping             | Yes  |

| <b>Audio</b>                |  |
|-----------------------------|--|
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/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)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)  |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/48 kHz   |
| Environment Noise Filtering | Yes  |
| <b>Network</b>              |  |
| 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  |
| Simultaneous Live View      | Up to 6 channels   |
| API                         | Open Network Video Interface (Profile S, Profile G), ISAPI, SDK, ISUP  |
| Security                    | Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface   |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user   |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.  |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central  |
| Web Browser                 | Plug-in required live view: IE 11,<br>Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+,<br>Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+   |
| <b>Image</b>                |  |
| Image Parameters Switch     | Yes  |
| Day/Night Switch            | Day, Night, Auto, Schedule   |
| Wide Dynamic Range (WDR)    | 120 dB   |
| SNR                         | ≥ 52 dB  |
| Image Enhancement           | BLC, HLC, 3D DNR   |
| Privacy Mask                | 8 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 512 GB  |
| Audio                       | Built-in Microphone: Dual Array Microphone<br>1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Built-in Microphone         | Yes, 2 built-in microphones  |
| Alarm                       | 1 input, 1 output (max. 24 VDC/24 VAC, 1 A)  |
| Reset Key                   | Yes  |
| <b>Event</b>                |  |
| Basic Event                 | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception  |
| Smart Event                 | Unattended baggage detection, object removal detection   |

|                                  |   |
|----------------------------------|---|
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture   |
| <b>Deep Learning Function</b>    |   |
| Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)   |
| <b>General</b>                   |   |
| Power                            | 12 VDC $\pm$ 25%, 0.88 A, max. 10.56 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 12.5 W  |
| Material                         | Metal   |
| Dimension                        | $\varnothing$ 121.5 mm $\times$ 97.6 mm ( $\varnothing$ 4.78" $\times$ 3.84")   |
| Package Dimension                | 150 mm $\times$ 150 mm $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.5")   |
| Weight                           | Approx. 620 g (1.4 lb.)   |
| With Package Weight              | Approx. 880 g (1.9 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                         | 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 |
| General Function                 | Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding   |
| <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,<br>KC: KN32: 2015, KN35: 2015  |
| Safety                           | 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,<br>LOA: IEC/EN 60950-1   |
| Environment                      | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006  |
| Protection                       | IP67: IEC 60529-2013, IK10: 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.

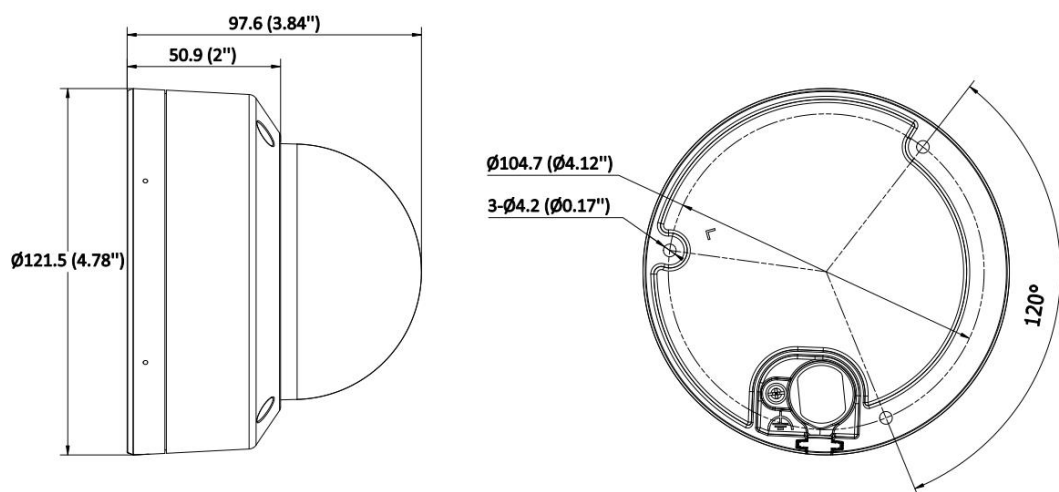
| Level                | Description  |
|----------------------|--|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |

|                        |  |
|------------------------|--|
| 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-2CD2783G2-LIZS2U(2.8-12mm)
- DS-2CD2783G2-LIZS2U(2.8-12mm)(Black)
- DS-2CD2783G2-LIZS2U(2.8-12mm)(T)


▪ **Dimension**




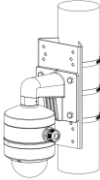
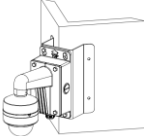





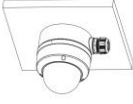
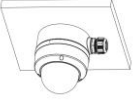





Unit: mm (inch)

▪ **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   |
|---|---|---|---|---|
|  |  |  |  |  |

|  |  |  |  |  |
|--|--|--|--|--|
|   |   |   |   |   |
| <b>DS-1280ZJ-DM46</b><br>Junction box  | <b>DS-2280ZJ-WA120</b><br>Junction box   | <b>DS-2210ZJ-WA-120</b><br>Pendant Mount   | <b>DS-2200ZJ-WA-120</b><br>Wall mount  | <b>DS-2200ZJ-WAJ-120</b><br>Wall mount   |
|   |   |   |   |   |
|  |  |  |  |  |

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