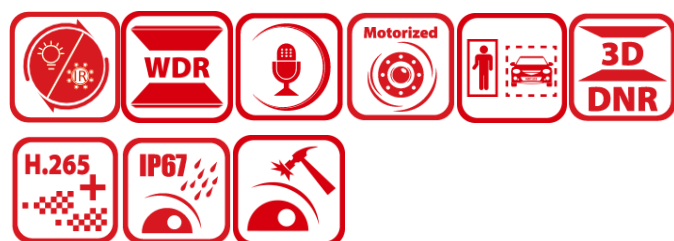


**DS-2CD3781G2-LIZSU(Saudi Made)****8 MP Smart Hybrid Light Motion 2.0 Motorized Varifocal Dome Network Camera**

Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security defense capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Support Human and Vehicle Detection
- Smart Hybrid Light: advanced technology with long range
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB WDR technology
- 3D DNR technology delivers clean and sharp images
- Built-in microphone for real-time audio security
- Motorized varifocal lens for easy installation and monitoring
- Support on-board storage up to 512 GB (SD card slot)
- Water and dust resistant (IP67) and vandal proof (IK10)

## ▪ Specification

| Camera                      |                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/2.7" Progressive Scan CMOS                                                                                                                                             |
| Max. Resolution             | 3840 × 2160                                                                                                                                                              |
| Min. Illumination           | Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light                                                                                                                      |
| 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, 2.7 to 13.5 mm                                                                                                                           |
| Focal Length & FOV          | 2.7 to 13.5 mm, horizontal FOV 107.7° to 32.5°, vertical FOV 56.5° to 18.3°, diagonal FOV 129.3° to 37.3°                                                                |
| Lens Mount                  | Ø14                                                                                                                                                                      |
| Iris Type                   | Fixed                                                                                                                                                                    |
| Aperture                    | Max. F1.6                                                                                                                                                                |
| Depth of Field              | Wide: 1 m to ∞<br>Tele: 4 m to ∞                                                                                                                                         |
| DORI                        |                                                                                                                                                                          |
| DORI                        | Wide: D: 89.6m, O: 35.6 m, R: 17.9 m, I: 9.0 m<br>Tele: D: 272.0 m, O: 107.9 m, R: 54.4 m, I: 27.2 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>12.5 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)<br>60 Hz:<br>15 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) |
| Sub-Stream                  | 50 Hz: 12.5 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz: 15 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 and sub-stream                                                                                                                            |
| Audio                       |                                                                                                                                                                          |
| Audio Type                  | Mono sound                                                                                                                                                               |
| Environment Noise Filtering | Yes                                                                                                                                                                      |
| Audio Sampling Rate         | 8 kHz/16 kHz                                                                                                                                                             |
| Audio Compression           | G.711/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                  |                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, RTCP, NTP, IGMP, IPv4, IPv6, UDP, QoS, FTP, SMTP, HTTPS, DDNS, UPnP, 802.1X                                                                                                                                                                                                  |
| API                      | ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK                                                                                                                                                                                                                                                                    |
| Security                 | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address) |
| Simultaneous Live View   | Up to 6 channels                                                                                                                                                                                                                                                                                                       |
| User/Host                | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                     |
| Client                   | iVMS-4200, Hik-Connect                                                                                                                                                                                                                                                                                                 |
| Web Browser              | Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+                                                                                                                                                                                                                                                           |
| 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         | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB                                                                                                                                                                                                                                      |
| Built-in Microphone      | Yes, 1 built-in microphone                                                                                                                                                                                                                                                                                             |
| Audio                    | 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                                         |
| Alarm                    | 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                                                                                                                                                                                            |
| Smart Event              | Line crossing detection, intrusion detection                                                                                                                                                                                                                                                                           |
| Linkage                  | Upload to FTP/memory card, notify surveillance center, send email, trigger recording, trigger capture                                                                                                                                                                                                                  |
| General                  |                                                                                                                                                                                                                                                                                                                        |
| Power                    | 12 VDC ± 25%, 0.8 A, max. 9.6 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 12 W                                                                                                                                                                                     |
| Material                 | Aluminum alloy                                                                                                                                                                                                                                                                                                         |
| Dimension                | Ø121.5 mm × 97.6 mm (Ø4.78" × 3.84")                                                                                                                                                                                                                                                                                   |
| Package Dimension        | 150 mm × 150 mm × 141 mm (5.91" × 5.91" × 5.55")                                                                                                                                                                                                                                                                       |

|                                  |                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                           | Approx. 650 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                         | English, Ukrainian                                                                                                                              |
| General Function                 | Heartbeat,mirror,flash log,password reset via email,pixel counter,password protection,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, 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                                                                                                                             |
| Protection                       | IP67:IEC 60529-2013,IK10:IEC 62262:2002                                                                                                         |

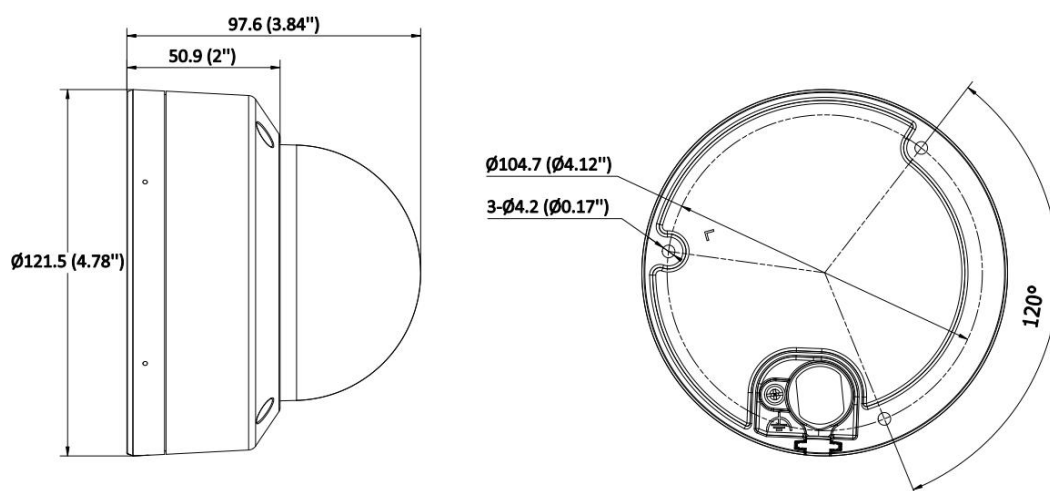
## ▪ Typical Application

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.                                                                                                                                  |

## ▪ Dimension



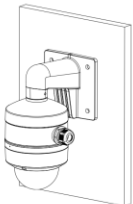
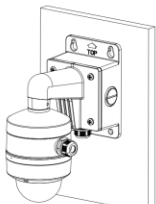
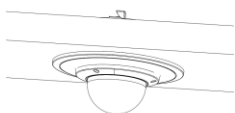
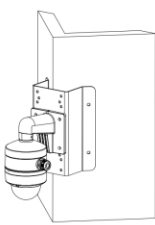
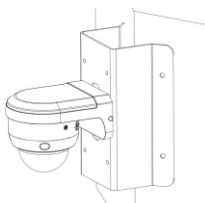
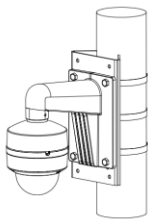
Unit: mm (inch)

## ▪ Accessory

### ▪ Optional

| DS-1272ZJ-120                                                                       | DS-4221ZJ-WC                                                                        | DS-1276ZJ-SUS                                                                       | DS-1476ZJ-SUS                                                                         | DS-1275ZJ-SUS                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-220AZJ-130-WA                                                                    | DS-1272ZJ-120B                                                                      | DS-1271ZJ-120                                                                       | DS-1275ZJ-S-SUS                                                                       | DS-1280ZJ-DM46                                                                        |
|  |  |  |  |  |
| DS-1475ZJ-SUS                                                                       | DS-220AZJ-145-WA                                                                    |                                                                                     |                                                                                       |                                                                                       |
|  |  |                                                                                     |                                                                                       |                                                                                       |

## ▪ Installation Methods

|                                                                                     |                                                                                     |                                                                                    |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Wall Mounting</b><br><b>DS-1272ZJ-120+DS-1280ZJ-DM46</b>                         | <b>Wall Mounting</b><br><b>DS-220AZJ-130-WA</b>                                     | <b>Wall Mounting</b><br><b>DS-1272ZJ-120B+DS-1280ZJ-DM46</b>                       | <b>Wall Mounting</b><br><b>DS-220AZJ-145-WA</b>                                     | <b>In-Ceiling Mounting</b><br><b>DS-4221ZJ-WC</b>                                    |
|    |    |   |  |   |
| <b>Corner Mounting</b><br><b>DS-1276ZJ-SUS+DS-1272ZJ-120+DS-1280ZJ-DM46</b>         | <b>Corner Mounting</b><br><b>DS-1476ZJ-SUS+DS-220AZJ-130-WA</b>                     | <b>Vertical Pole Mounting</b><br><b>DS-1275ZJ-SUS+DS-1272ZJ-120</b>                | <b>Vertical Pole Mounting</b><br><b>DS-1275ZJ-S-SUS+DS-220AZJ-130-WA</b>            | <b>Vertical Pole Mounting</b><br><b>DS-1475ZJ-SUS+DS-220AZJ-145-WA</b>               |
|   |   |  |  |  |
| <b>Pendant Mounting</b><br><b>DS-1271ZJ-120</b>                                     | <b>Junction Box</b><br><b>DS-1280ZJ-DM46</b>                                        |                                                                                    |                                                                                     |                                                                                      |
|  |  |                                                                                    |                                                                                     |                                                                                      |

# See Far, Go Further



[www.hikvision.com](http://www.hikvision.com)  
[support@hikvision.com](mailto:support@hikvision.com)

