

**DS-2VG3D23NF-HNSU****2 MP AcuSense Fixed Dome Network Camera**

# AcuSense



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 protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 2 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- Focus on human and vehicle classification based on deep learning
- Built-in arrayed dual-microphone for real-time high quality audio security
- Water and dust resistant (IP67) and vandal-resistant (IK10)

## ▪ Specification

| Camera                 |                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/2.7" Progressive Scan CMOS                                                                                                                                                                                         |
| Max. Resolution        | 1920 × 1080                                                                                                                                                                                                          |
| 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, 4, and 6 mm optional                                                                                                                                                                          |
| Focal Length & FOV     | 2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 132.4°<br>4 mm, horizontal FOV 91°, vertical FOV 47.8°, diagonal FOV 110.2°<br>6 mm, horizontal FOV 56°, vertical FOV 29.8°, diagonal FOV 65.3°          |
| Lens Mount             | M12                                                                                                                                                                                                                  |
| Iris Type              | Fixed                                                                                                                                                                                                                |
| Aperture               | F1.6                                                                                                                                                                                                                 |
| Depth of Field         | 2.8 mm: 1 m to ∞<br>4 mm: 1.1 m to ∞<br>6 mm: 2.8 m to ∞                                                                                                                                                             |
| DORI                   |                                                                                                                                                                                                                      |
| DORI                   | 2.8 mm, D: 42 m, O: 16 m, R: 8 m, I: 4 m<br>4 mm, D: 52 m, O: 20 m, R: 10 m, I: 5 m<br>6 mm, D: 85 m, O: 33 m, R: 17 m, I: 8 m                                                                                       |
| Illuminator            |                                                                                                                                                                                                                      |
| Supplement Light Type  | IR                                                                                                                                                                                                                   |
| Supplement Light Range | Up to 40 m                                                                                                                                                                                                           |
| Smart Supplement Light | Yes                                                                                                                                                                                                                  |
| IR Wavelength          | 850 nm                                                                                                                                                                                                               |
| Video                  |                                                                                                                                                                                                                      |
| Main Stream            | 50 Hz:<br>25 fps (1920 × 1080, 1280 × 720)<br>60 Hz:<br>30 fps (1920 × 1080, 1280 × 720)                                                                                                                             |
| Sub-Stream             | 50 Hz:<br>25 fps (640 × 480, 640 × 360)<br>60 Hz:<br>30 fps (640 × 480, 640 × 360)                                                                                                                                   |
| 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>Fourth stream: H.265/H.264/MJPEG<br>*Third stream and fourth stream are supported under certain settings. |

|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Third Stream                | 50 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)<br>*Third stream is supported under certain settings.                                       |
| Fourth Stream               | 50 Hz:<br>10 fps (1280 × 720, 640 × 480, 640 × 360)<br>60 Hz:<br>10 fps (1280 × 720, 640 × 480, 640 × 360)<br>*Fourth stream is supported under certain settings.                                                                |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile                                                                                                                                                                                       |
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                                                                                                                |
| H.265 Type                  | Main Profile                                                                                                                                                                                                                     |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                         |
| Bit Rate Control            | CBR, VBR                                                                                                                                                                                                                         |
| Target Cropping             | Yes                                                                                                                                                                                                                              |
| Region of Interest (ROI)    | 5 fixed regions for main stream and sub-stream                                                                                                                                                                                   |
| <b>Audio</b>                |                                                                                                                                                                                                                                  |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 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                                                                                                                                                                                                                              |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                         |
| <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                                                      |
| API                         | ONVIF (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, WSSE and digest authentication for Open Network Video Interface |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                               |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                              |
| Network Storage             | NAS (NFS, SMB/CIFS)                                                                                                                                                                                                              |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                 |
| Web Browser                 | Plug-in required live view: IE11,<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                                                                                                                                                                                                                              |
| Image Settings              | Rotate mode                                                                                                                                                                                                                      |
| 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                 | NF: Do not support recording                                                                                                                                                                                                                                                                                                                          |
| Reset Key                        | No                                                                                                                                                                                                                                                                                                                                                    |
| Audio                            | -S: 1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 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)                                                                                                                                                                                                                                                                                                            |
| <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, loitering detection, people gathering detection, people running detection, parking detection, video quality diagnosis                                                                                                                                                                         |
| Linkage                          | Upload to FTP/NAS, notify surveillance center, send email, trigger alarm output                                                                                                                                                                                                                                                                       |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Face Capture                     | Yes                                                                                                                                                                                                                                                                                                                                                   |
| Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)                                                                                                                                                                                                                   |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| General Function                 | Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-banding                                                                                                                                                                                                                                                                   |
| Power                            | 12 VDC ± 25%, 0.7 A, max. 8.4 W, Ø5.5 mm coaxial power plug, reverse polarity protection,<br>PoE: IEEE 802.3af, Class 3, max. 10 W                                                                                                                                                                                                                    |
| Dimension                        | Ø121.5 mm × 97.6 mm (Ø4.78" × 3.84")                                                                                                                                                                                                                                                                                                                  |
| Package Dimension                | 150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")                                                                                                                                                                                                                                                                                                         |
| Weight                           | Approx. 600 g (1.3 lb.)                                                                                                                                                                                                                                                                                                                               |
| With Package Weight              | Approx. 826 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                         | 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 |
| Material                         | Base: aluminum alloy, cover: aluminum alloy                                                                                                                                                                                                                                                                                                           |
| <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,<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                                                                                                                     |

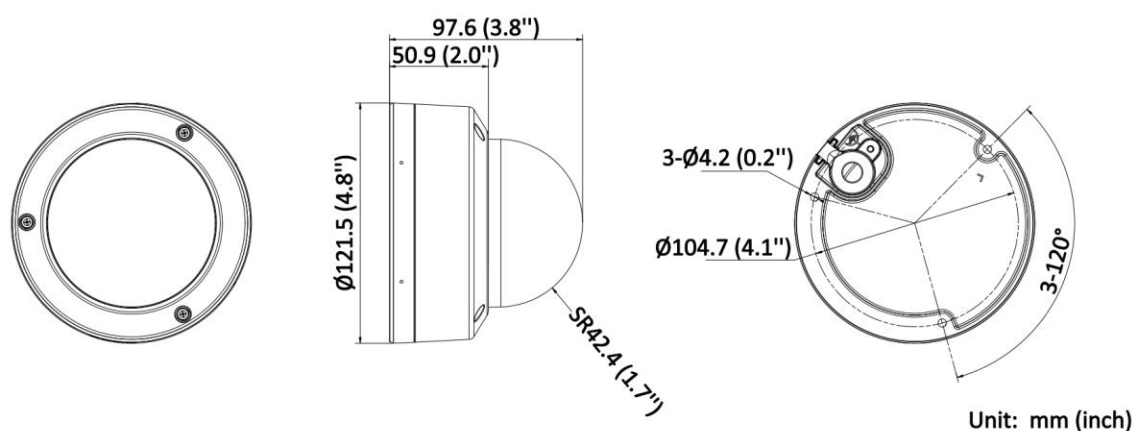
## ▪ Typical Application

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

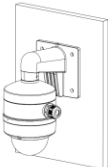
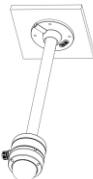
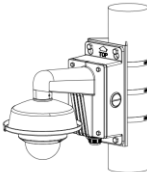
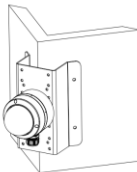
| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                  |

## ▪ 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-2280ZJ-WA120<br>Junction box                                                     | DS-2210ZJ-WA-120<br>Pendant Mount                                                   | DS-2200ZJ-WA-120<br>Wall mount                                                        | DS-2200ZJ-WAJ-120<br>Wall mount                                                       |
|  |  |  |  |  |
|  |  |  |  |  |

# See Far, Go Further



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