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Introduction

The Verogen MiSeq FGx instrument uses sequencing by synthesis technology and integrates cluster amplification, sequencing, and data analysis in a single instrument with a footprint of approximately two feet square.

This guide provides important safety information pertaining to the installation, servicing, and operation of the MiSeq FGx, as well as product compliance and regulatory statements. Read this document prior to performing any procedures on the MiSeq FGx.

The MiSeq FGx country of origin and date of manufacture are printed on the instrument label.

Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Manufactured By" /></td>
<td>Manufactured By</td>
</tr>
<tr>
<td><img src="image" alt="Date of Manufacture" /></td>
<td>Date of Manufacture</td>
</tr>
<tr>
<td><img src="image" alt="Model Number" /></td>
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<tr>
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<tr>
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<td>Off</td>
</tr>
<tr>
<td><img src="image" alt="On" /></td>
<td>On</td>
</tr>
</tbody>
</table>
Safety Considerations and Markings

The purpose of this section is to clearly identify the potential hazards associated with installing, servicing, and operating the MiSeq FGx instrument. Do not operate or interact with the instrument in a manner that exposes you to any of these dangers. Hazards indicated by labels on the instrument are pictured in this section. All of the hazards described herein can be avoided by following the standard operating procedures included in the MiSeq FGx Instrument Reference Guide (document # VD2018006).

General Safety Warnings

Before operating the MiSeq FGx, all personnel must be trained by Verogen in the correct operation of the instrument and any potential safety considerations.

CAUTION
Follow all operating instructions as documented when working in areas marked with this label to minimize personal or instrument risk.

Electrical Safety Warnings

Do not remove any of the outer panels from the instrument. There are no user-serviceable components inside. Operating the instrument with any of the panels removed creates potential exposure to line voltage as well as DC voltages.

The instrument is powered by 100–240 volts AC operating at either 50 or 60 Hz. Most of the voltage sources are located behind the right side panel, but they may also be accessible if other panels are removed. Some voltage is present on the instrument even when the instrument is powered down. Operate the instrument with all panels intact to avoid electrical shock.

Electrical Connections

Plug the MiSeq FGx into a grounded circuit capable of delivering at least:
- 10 Amps for a 100–110V power source
- 6 Amps for a 220–240V power source

For more information, see MiSeq FGx Instrument Site Prep Guide.

Power Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Voltage</td>
<td>100–240 Volts AC @ 50/60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>400 Watts</td>
</tr>
</tbody>
</table>

Protective Earth

The MiSeq FGx has a connection to protective earth through the enclosure. The safety ground on the power cord returns protective earth to a safe reference. The protective earth connection on the power cord must be in good working condition when using this device.
Fuses

The MiSeq FGx contains no user-replaceable fuses.

Hot Surface Safety Warning

Do not operate the MiSeq FGx with any of the panels removed.
Do not touch the flow cell stage in the flow cell compartment. The Peltier-effect heater used in the stage area is normally controlled between ambient room temperature (22°C) and 95°C. Exposure to temperatures at the upper end of this range could result in burns.

Heavy Object Safety Warning

The instrument weighs approximately 126 lbs. and could cause serious injury if dropped or mishandled.

Environmental Constraints

<table>
<thead>
<tr>
<th>Element</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Transportation and Storage: -10°C to 40°C (14°F to 104°F)</td>
</tr>
<tr>
<td></td>
<td>Operating Conditions: 19°C to 25°C (66°F to 77°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>Transportation and Storage: Non-condensing humidity</td>
</tr>
<tr>
<td></td>
<td>Operating Conditions: 30-75% relative humidity (non-condensing)</td>
</tr>
<tr>
<td>Elevation</td>
<td>Below 2,000 meters (6,500 feet)</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Pollution Degree II environment or better</td>
</tr>
<tr>
<td></td>
<td>Note: A Pollution Degree II environment is defined as one that normally includes only non-conductive pollutants.</td>
</tr>
<tr>
<td>Ventilation</td>
<td>Consult your facilities department for ventilation requirements for the level of heat output expected from the instrument.</td>
</tr>
</tbody>
</table>

Uncrating, Installing, and Moving the Instrument

Only Verogen-authorized personnel should uncrate, install, or move the MiSeq FGx instrument. If the instrument must be relocated, contact Verogen Customer Support to arrange a service visit.

For contact information, see the inside back cover of this document.
Compliance and Regulatory Markings

The MiSeq FGx is labeled with the following compliance and regulatory markings.

- This label assures that the product is tested and certified by TUV Rheinland, a Nationally Recognized Testing Laboratory (NRTL).

- This label assures that the product meets the essential requirements of all relevant EU directives.

- This label assures that the product complies with the Environmental Protection User Period - 10 years.

Environment

- This label indicates that the instrument should not be disposed with common municipal waste.

- Return the instrument to Verogen for disposal.
Product Compliance

Product Certifications and Compliance
The MiSeq FGx is certified to the following standards:
- UL STD 61010-1
- CSA STD C22.2 No 61010-1
- IEC/EN 61010-1
- IEC/EN 61326-1
- IEC/EN 61326-2-6

The MiSeq FGx complies with the following directives:
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- R&TTE Directive 1999/5/EC

Human Exposure to Radio Frequency
This equipment complies with maximum permissible exposure (MPE) limits for the general population per Title 47 CFR § 1.1310 Table 1.
This equipment complies with the limitations of human exposure to electromagnetic fields (EMFs) for devices operating within the frequency range 0 Hz to 10 GHz, used in radio frequency identification (RFID) within an occupational or professional environment per EN 50364:2001 sections 4.0.

FCC Compliance
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instrumentation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

Shielded Cables
Shielded cables must be used with this unit to ensure compliance with the Class A FCC limits.
Conformité IC

Le dispositif numérique Classe A répond à toutes les exigences des Règlements canadiens sur le matériel brouilleur.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:

1. L’appareil ne doit pas produire de brouillage.
2. L’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Conformément à la réglementation d’Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d’un type et d’un gain maximal (ou inférieur) approuvé pour l’émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l’intention des autres utilisateurs, il faut choisir le type d’antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l’intensité nécessaire à l’établissement d’une communication satisfaisante.
Le présent émetteur radio (IC ID: 9859A-MISEQ) a été approuvé par Industrie Canada pour fonctionner avec les types d’antenne énumérés ci-dessous et ayant un gain admissible maximal et l’impédance requise pour chaque type d’antenne. Les types d’antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l’exploitation de l’émetteur.
Technical Assistance

For technical assistance, contact Verogen Technical Support.

Table 1  General Contact Information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>11111 Flintkote Avenue</td>
</tr>
<tr>
<td></td>
<td>San Diego CA 92121 USA</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.verogen.com">www.verogen.com</a></td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:techsupport@verogen.com">techsupport@verogen.com</a></td>
</tr>
<tr>
<td>Phone</td>
<td>+1.833.837.6436 toll-free (North America)</td>
</tr>
<tr>
<td></td>
<td>+1.858.285.4101 (outside North America)</td>
</tr>
</tbody>
</table>

Safety data sheets (SDSs)

- For MiSeq FGx sequencing kit safety data sheets, visit www.verogen.com/sds.
- For Research Use Only (RUO) sequencing reagent and Illumina library preparation kit safety data sheets, visit support.illumina.com/sds.

Product documentation—Available for download in PDF from the Verogen website. Go to www.verogen.com/support select the appropriate document.