

Safety and Compliance Guide

For Research Use Only. Not for use in diagnostic procedures.

This guide provides important safety information pertaining to the installation, servicing, and operation of the Illumina® MiniSeq™ system. This guide includes product compliance and regulatory statements. Read this document before performing any procedures on the system.

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

Safety Considerations and Markings

This section identifies potential hazards associated with installing, servicing, and operating the instrument. Do not operate or interact with the instrument in a manner that exposes you to any of these dangers.

All described hazards can be avoided by following the standard operating procedures included in the *MiniSeq System Guide* (document # 1000000002695).

General Safety Warnings

Make sure that all personnel are trained in the correct operation of the instrument and any potential safety considerations.



Follow all operating instructions when working in areas marked with this label to minimize risk to personnel or the instrument.

Laser Safety Warning

The MiniSeq system is a Class 1 laser product embedded with a 780 nm, 10 mW Class 3B diode. Class 1 levels of radiation are not considered hazardous.

All laser radiation accessible to the operator is in accordance with IEC 60825-1 accessible limits for Class 1 laser products.

Electrical Safety Warnings

Do not remove 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 and DC voltages.



The instrument is powered by 100–240 volts AC operating at 50–60 Hz. Hazardous voltage sources are located behind the rear and side panel, but can be accessible if other panels are removed. Some voltage is present on the instrument even when the instrument is turned off. Operate the instrument with all panels intact to avoid electrical shock.

Electrical Connections

Connect the instrument to a grounded circuit capable of delivering at least:

- ▶ 15 Amps for a 100–110 Volt power source
- ▶ 10 Amps for a 220–240 Volt power source

For more information, see the *MiniSeq System Site Prep Guide* (document # 1000000002696).

Power Specifications

| Type | Specification |
|------------------------|-----------------------------|
| Line Voltage | 100–240 Volts AC @ 50/60 Hz |
| Peak Power Consumption | 240 Watts |

Protective Earth



The instrument 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 instrument contains no user-replaceable fuses.

Hot Surface Safety Warning

Do not operate the instrument with any of the panels removed.

Do not touch the temperature station in the flow cell compartment. The heater used in this area is normally

controlled between ambient room temperature (22°C) and 60°C. Exposure to temperatures at the upper end of this range can result in burns.

Heavy Object Safety Warning



The instrument weighs approximately 45 kg (99 lb) and can cause serious injury if dropped or mishandled.

Mechanical Safety Warning



Keep fingers away from syringes located in the pump compartment inside the back panel of the instrument.

Uncrating, Installing, and Moving the Instrument

Only personnel authorized by Illumina can uncrate, install, or move the instrument. If you must relocate the instrument, contact your Illumina representative.

Environmental Considerations

| Element | Specification |
|-------------|--|
| Temperature | Maintain a lab temperature of 19°C to 25°C (22°C ±3°C). During a run, do not allow the ambient temperature to vary more than ±2°C. |
| Humidity | Maintain a noncondensing relative humidity between 20–80%. |
| Elevation | Locate the instrument at an elevation below 2000 meters (6500 feet). |
| Air Quality | Operate the instrument in an indoor environment with air particulate cleanliness levels per ISO 9 (ordinary room air), or better. |
| Vibration | Limit environmental vibration to ISO office level, or better. |

Electromagnetic Compatibility Considerations

This equipment has been designed and tested to the CISPR 11 Class A standard. In a domestic environment, it might cause radio interference. If radio interference occurs, you might need to mitigate it. Evaluate the electromagnetic environment before operating the device.

Do not use the device in close proximity to sources of strong electromagnetic radiation, which can interfere with proper operation.

Product Certifications and Compliance

The MiniSeq system complies with the following directives:

- ▶ EMC Directive 2014/30/EU
- ▶ Low Voltage Directive 2014/35/EU
- ▶ Radio Equipment 2014/53/EU

The complete EU declarations of conformity and certificates of compliance are available on the Illumina Support website.

Product Compliance and Regulatory Statements

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 limitation 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) in an occupational or professional environment. (EN 50364:2010 sections 4.0.)

For information on RFID compliance, see the *RFID Reader with External Antenna Compliance Guide* (document # 1000000002699).

Brazil Compliance

Conformidade ANATEL: Este equipamento foi testado e está em conformidade com as resoluções da ANATEL 442 e 506.

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

IC Compliance

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

This device complies with Industry Canada license exempt RSS standards. Operation is subject to the following two conditions:

- 1 This device may not cause interference.
- 2 This device must accept any interference, including interference that may cause undesired operation of the device.

Españoles advertencia-Mexico

Conformidad con Instituto Federal de Telecomunicaciones

La operación de este equipo está sujeta a las siguientes dos condiciones:

- 1 Es posible que este equipo o dispositivo no cause interferencia perjudicial.
- 2 Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

IFETEL No.: RCPILEX 13-2029

Korea Compliance

해당 무선 설비는 운용 중 전파 혼신 가능성이 있음.
A급 기기 (업무용 방송 통신기자재)
이 기기는 업무용 (A급)으로 전자파 적합로서 판매
자 또는 사용자는 이 점을 주의
하시기바라며, 가정 외의 지역에서 사용하는 것을
목적으로 합니다.

Taiwan Compliance

低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機，非經許可，公
司、商號或使用者均不得擅自變更頻率、加大功率或變更原
設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合
法通信；經發現有干擾現象時，應立即停用，並改善至無干
擾時方得繼續使用。

前項合法通信，指依電信規定作業之無線電信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波
輻射性電機設備之干擾。

Thailand Compliance

This telecommunication equipment conforms to the
requirements of the National Telecommunications
Commission.

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.

Revision History

| Document | Date | Description of Change |
|--|------------------|--|
| Material # 20006369 Document # 1000000002698 v03 | August 2018 | <ul style="list-style-type: none"> Removed list of standards from Product Certifications and Compliance. Removed Compliance and Regulatory Markings. Updated directive numbers and reference information in Product Certifications and Compliance. Updated standard number and reference information in Human Exposure to Radio Frequency. Added compliance statements for Brazil, Korea, Mexico, Taiwan, and Thailand. |
| Material # 20006369 Document # 1000000002698 v02 | March 2016 | Added translations in Arabic and Japanese. |
| Material # 20005447 Document # 1000000002698 v01 | February 2016 | Corrected product certification listing to UL 61010-1:2012. |
| Material # 20002371 Document # 1000000002698 v00 | December 2015 | Initial release. |

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