

iSeq 100 Sequencing System

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® iSeq™ 100 Sequencing System. This guide includes product compliance and regulatory statements. Read this information 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.

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.

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.

Power Specifications

Type	Specification
Line Voltage	100–240 VAC at 50/60 Hz
Peak Power Consumption	80 Watts

An electrical ground is required. If the voltage fluctuates more than 10%, a power line regulator is required.

Power Cord Access

Position the instrument so that you can quickly disconnect the power cord from the outlet.

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 power entry module includes two input fuses on the high-voltage input lines. These fuses are size 5 mm × 20 mm and rated for 10 Amps, 250 VAC, Slow Blow.

Hot Surface Safety Warning

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

Environmental Considerations

Element	Specification
Temperature	Maintain a lab temperature of 15°C to 30°C (22.5°C ±7.5°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%.

Element	Specification
Elevation	Locate the instrument at an elevation below 2000 meters (6500 feet).
Air Quality	Operate the instrument in an indoor environment. Maintain air particulate cleanliness levels per ISO 9 (ordinary room air), or better.
Vibration	Limit environmental vibration to ISO office level, or better.

Compliance and Regulatory Markings

The instrument is labeled with the following compliance and regulatory markings.

Restriction of Hazardous Substances (RoHS)



This label indicates that the instrument meets the WEEE Directive for waste.

Visit support.illumina.com/certificates.html for guidance on recycling your equipment.

Product Compliance and Regulatory Statements

Product Certifications and Compliance

The iSeq 100 System is compliant with the following directives:

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

The complete EU declarations of conformity and certificates of compliance are available on the Illumina website at support.illumina.com/certificates.html.

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) and transmitters operating in 2.4 GHz and 5 GHz frequencies, in an occupational or professional environment. (EN 50364:2010 sections 4.0; EN 62311:2008; EN 62479:2010).

This equipment should be installed and operated with minimum distance 20 cm (8 in) between the radiator and your body.

For information on RFID compliance, see the *RFID Reader Compliance Guide (document # 1000000002699)* at support.illumina.com/downloads/rfid-reader-compliance-guide-1000000002699.html.

Europe Compliance (CE Mark)

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

The frequency, mode, and the maximum transmitted power in EU are listed below:

- ▶ 2412–2472 MHz (802.11g6Mbps): 19.98 dBm
- ▶ 2402–2480 MHz (EDR 3Mbps): 9.65 dBm
- ▶ 2402–2480 MHz (LE 1Mbps): 9.80 dBm
- ▶ 5180–5240/ 5260–5320/5500–5700 MHz (802.11acVHT40 MCS0/NSS1): 22.95 dBm

Brazil Compliance

Conformidade ANATEL: Este equipamento foi testado e está em conformidade com as resoluções da ANATEL 442, 242 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

IFETEL No.: RCPRERT16-1591

Korea Compliance

해당 무선 설비는 운용 중 전파 혼신 가능성이 있음.

A급 기기 (업무용 방송통신기자재)

이 기기는 업무용 (A급)으로 전자파 적합로서 판매자 또는 사용자는 이점을 주의

하십시오. 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。

在5.25G ~5.35G頻帶內操作之無線資訊傳輸設備僅適於室內使用

Thailand Compliance

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

EMC 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.

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

Evaluate the electromagnetic environment before operating the device.

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.

Revision History

Document	Date	Description of Change
Document # 1000000035336 v00	January 2018	Initial release.

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