Device specifications

CAUTION

- The maximum sound pressure level is measured based on the distance between the position where the device operator stands during normal operation and any position which is one meter from the device and has the maximum sound pressure level.
- Because the temperature and humidity fluctuations influence the accuracy of the experiment results, it is recommended that you install an air conditioning system and a humidifier or dehumidifier in the laboratory to maintain the temperature and humidity.

Table 40 Sequencer specifications

Item	Description	
Laser classification of the device	Class 1 laser product	
Dimensions	1656 mm (W) × 1815 mm (H) × 903 mm (D) (65.2 inches × 71.5 inches × 35.6 inches)	
Net weight	Approximately 765 kg (1687 lb)	
Touch screen	Type	LCD
	Size	20 inches
	Resolution	1920 × 1080 pixels
Power	Voltage	200 V to 240 V~
	Frequency	50/60 Hz
	Rated power	3000 VA
	Overvoltage category	II
	Cable	min.10AWG
Maximum sound pressure level	75 dBA	
Degrees of protection provided by enclosures (IP Code)	IPX0	

Item	Description	
Accompanying items	Refer to the packing list	
Operating environment requirements	Temperature	19 °C to 25 °C (66 °F to 77 °F)
	Relative humidity	30% RH to 80% RH, non-condensing
	Atmospheric pressure	80 kPa to 106 kPa
	Altitude	≤2000 m
	Pollution degree	2
	Indoor use	
	Because the temperature and humidity fluctuations influence the accuracy of the experiment results, we recommend that you install an air conditioning system and a humidifier or dehumidifier in the laboratory to maintain the temperature and humidity.	
Transportation/ Storage environment requirements	Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
	Relative humidity	15% RH to 85% RH, non-condensing
	Atmospheric pressure	80 kPa to 106 kPa

Table 41 DNB loader specifications

Item	Description
Dimension	430 mm (W) × 750 mm (H) × 780 mm (D) (17 inches × 30 inches × 31 inches)
Net weight	Approximately 81 kg (179 lb)
Touch screen monitor	• Type: LCD touch screen • Size: approximately 13.3 inches • Resolution: 1280 × 600 pixels
Power	• Voltage: 100 V - 240 V~ • Frequency: 50/60 Hz • Rated power: 600 VA • Overvoltage category: II • Cable: min. 16 AWG

Item	Description
Fuse specification	F10AL250V
Maximum sound pressure level	75 dB(A)
Degrees of protection provided by enclosures (IP Code)	IPX0
Operating environment requirements	• Temperature: 19 °C to 25 °C (66 °F to 77 °F) • Relative humidity: 30% RH to 80% RH, non-condensing • Atmospheric pressure: 80 kPa to 106 kPa • Pollution degree: 2 • Indoor use *i* Because the temperature and humidity fluctuations influence the accuracy of the loading results, we recommend that you install an air conditioning system and a dehumidifier in the laboratory to maintain appropriate temperature and humidity.
Storage/transportation environment requirements	• Temperature: -20 °C to 50 °C (-4 °F to 122 °F) • Relative humidity: 15% RH to 85% RH, non-condensing • Atmospheric pressure: 80 kPa to 106 kPa
Accompanying items	Refer to the packing list.

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Compliance information

The device complies with the following standards:

Item	Standard
Electromagnetic Compatibility (EMC)	IEC 61326-1 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
Safety requirements	• UL 61610-1/CAS C22.2 No.61010-1-12 Safety requirements for electrical equipment for measurement, control, and laboratory use-Part 1: General requirements • UL 61610-2-081/CSA C22.2 No. 61010-2-081 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes • UL 61010-2-010/CSA C22.2 No. 61010-2-010 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials • IEC 60825-1 Safety of laser product part 1: equipment classification and requirements

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Research use only

Complete Genomics has labeled the product solely for research use only and specified “RS” in the model name which means it should not be used for clinical diagnosis. Please refer to FDA Guidance, *Distribution of In Vitro Diagnostic Products Labeled for Research Use Only or Investigational Use Only* (Nov. 2013) (available at: *https://www.fda.gov/media/87374/download*). If you have any question, please contact Complete Genomics at +1 (888) 811-9644.

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Manufacturer information

Manufacturer	Complete Genomics, Inc.
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Technical support	Complete Genomics, Inc.
Technical support E-mail	US-TechSupport@mgi-tech.com
Customer service telephone	+1 (888) 811-9644
Website	www.completegenomics.com

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Order information

Catalog number	Model	Name	Version	Recommended brand
940-000838-00	FCL PE100	DNBSEQ-T7RS High-throughput Sequencing Set	V1.0	CG
940-000836-00	FCL PE150	DNBSEQ-T7RS High-throughput Sequencing Set	V1.0	CG
940-000840-00	stLFR FCL PE100	DNBSEQ-T7RS High-throughput Sequencing Set	V1.0	CG
940-000871-00	/	Sequencer Cleaning Cartridge	/	CG
940-000872-00	/	Cleaning Cartridge	/	CG
940-000873-00	/	DNB Load Plate (no Reagent)	/	CG
900-000697-00	DL-T7RS	DNB Loader DL-T7RS	/	CG

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Acronyms and abbreviations

Item	Description
BCS	Basecall server
BIC	Basecall Information Content
cPAS	Combinatorial Probe-anchor Synthesis
CPU	Central Processing Unit
DL-T7RS	DNB Loader for DNBSEQ-T7
DNA	Deoxyribonucleic Acid
DNB	DNA Nanoball
dsDNA	double-stranded DNA
EMC	Electromagnetic Compatibility
ESR	Effective Spots Rate
FAQ	Frequently Asked Questions
FCC	Federal Communications Commission
FCL	Flow Cell Large
FIT	Least square fit to the DNB intensities in 4 color space to represent the overall quality of the clusters
FOV	Field of View
FPGA	Field-programmable Gate Array
GPU	Graphics Processing Unit
IC	Interference-Causing
ID	Identification
ISW	Instrument Control Software
LAN	Local Area Network
LT	Laser temperature
MDA	Multiple Displacement Amplification
PE	Pair-end sequencing
QC	Quality Control

Item	Description
QR	Quick Response
RCR	Rolling Circle Replication
RFID	Radio Frequency Identification
RHO	Rho (ρ), intensity of raw signals
RNA	Ribonucleic Acid
SBC	Single Board Computer
SNR	Signal to Noise Ratio
ssDNA	single-stranded DNA
stLFR	single-tube Long Fragment Read
TV	Television
UDI	Unique Dual Index
UMI	Unique Molecular Identifier
UPS	Uninterruptible Power Supply
USB	Universal Serial Bus
VGA	Video Graphics Array
WES	Whole Exome Sequencing
WGS	Whole Genome Sequencing
ZLIMS	ZTRON laboratory information management system

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Part No.: H-020-000589-00