

Accelerate Your Research with HiSeq 2000

HiSeq 2000 redefines the trajectory of sequencing by combining innovative engineering with proven sequencing by synthesis chemistry to set new standards for output, simplicity, and cost-effectiveness. With HiSeq 2000, the ability to process larger numbers of samples and to decode larger and more complex genomes means that virtually any sequencing project is now within reach.

Learn More

For more information about HiSeq 2000 and Illumina sequencing, visit www.illumina.com/hiseqnow.

HiSeq 2000 Information

HiSeq 2000 Performance Parameters*

Read Length	Run Time	Output
1 × 35 bp	~1.5 days	26–35 Gb
2 × 50 bp	~4 days	75–100 Gb
2 × 100 bp	~8 days	150–200 Gb

*Sequencing output generated with a PhiX library and cluster densities between 260,000–347,000 clusters/mm² that pass filtering on a HiSeq 2000.

Throughput

Up to 25 Gb per day for a 2 × 100 bp run.

Reads

Up to one billion clusters passing filter, and up to two billion paired-end reads.

Performance

HiSeq 2000 provides the greatest yield of perfect reads and bases greater than Q30:

Greater than 90% bases higher than Q30 at 2 × 50 bp**

Greater than 85% bases higher than Q30 at 2 × 100 bp**

**Human genome at supported cluster densities

Service and Support

Illumina will ensure that your HiSeq 2000 is properly installed and qualified, and will provide ongoing maintenance and service. This industry-leading support is available in North America, Europe, and Asia.

HiSeq 2000 System Specifications With Monitor and PC

Catalog No. SY-401-1001

Instrument Configuration

CE marked and ETL listed instrument (HiSeq 2000 only)
Computer and touch screen display
Installation setup and accessories
Data collection and analysis software

Instrument Control Computer

Base Unit: 2x Intel Xeon X5560 2.8 GHz CPU
Memory: 48 GB RAM
Hard Drive: 4x 1.0 TB 7200 RPM SATA
Operating System: Windows Vista
Note: Computer specifications will be regularly upgraded.
Contact your local account manager for current configuration.

Operating Environment

Temperature: 22°C ± 3°C
Humidity: Non-condensing 20%–80%
Altitude: Less than 2,000 m (6,500 ft)
Air Quality: Pollution degree rating of II
Ventilation: Maximum of 4,000 BTU/h
For Indoor Use Only

Laser

532 nm, 660 nm, 700–840 nm, 650 nm (barcode reader)

Dimensions

WxDxH: 118.6 cm × 76.0 cm × 94.0 cm
(46.7 in × 30.0 in × 37.0 in)
Weight: 221.4 kg (488 lbs)
Crated Weight: 312 kg (688 lbs)

Power Requirements

100–240V AC 50/60Hz, 20A, 1500W

Illumina provides a region-specific uninterruptible power supply with the HiSeq 2000 instrument.

HiSeq 2000 Kits and Accessories

Application	Catalog No.
HiSeq 2000 Sequencing System	SY-401-1001
cBot Clonal Amplification System	SY-301-2002
Paired-End DNA Sample Prep Kit	PE-102-1001
Genomic DNA Sample Prep Kit	FC-102-1001
HiSeq Paired-End Cluster Generation Kit	PE-401-1001
HiSeq Single-Read Cluster Generation Kit	GD-401-1001
HiSeq Sequencing Kit (200 cycles)	FC-401-1001
HiSeq Sequencing Kit (50 cycles)	FC-401-1002

FOR RESEARCH USE ONLY