

← Back

Waste Bottles are Empty

Run Setup →

NovaSeq™ 6000

illumina®

THE NEXT ERA IN SEQUENCING STARTS NOW





We set out to create a sequencer with you in mind. One where you won't have to limit the scope or scale of your research. We built it with groundbreaking innovations integrated with our proven sequencing technology. Crafted it to open new possibilities. Made it scalable and flexible for virtually any genome, method, and scale of project. And gave it the ability to sequence more economically than ever before. The future of genomics is here.

It starts with NovaSeq.™



THE SEQUENCER YOU'VE BEEN WAITING FOR

The NovaSeq Series of Sequencing Systems redefines what's possible in high-throughput sequencing—with scalability and speed that allow you to bring new scientific visions to life. Now, you can utilize the highest levels of throughput more economically than ever before.

Available in 2 different models, the NovaSeq 5000 and NovaSeq 6000 Systems were built with groundbreaking technological innovations that leverage our proven sequencing technology, so you can choose the configuration that best suits your ever-evolving needs.

With the highest throughput of any production platform, the NovaSeq 6000 System enables you to power studies with more samples and higher depth of coverage with up to 6 TB of data output. The NovaSeq 5000 System offers a powerful solution for high-throughput genomics at a lower entry price with up to 2 TB of data output. Plus, with rapid turnaround capabilities available on both systems, you now have the ability to get to answers sooner.

SEQUENCING LIKE NO OTHER

Users can run 1 or 2 flow cells at a time, using any combination of the available read length and flow cell type.

Provides a quick, powerful, and cost-effective option for high-throughput applications

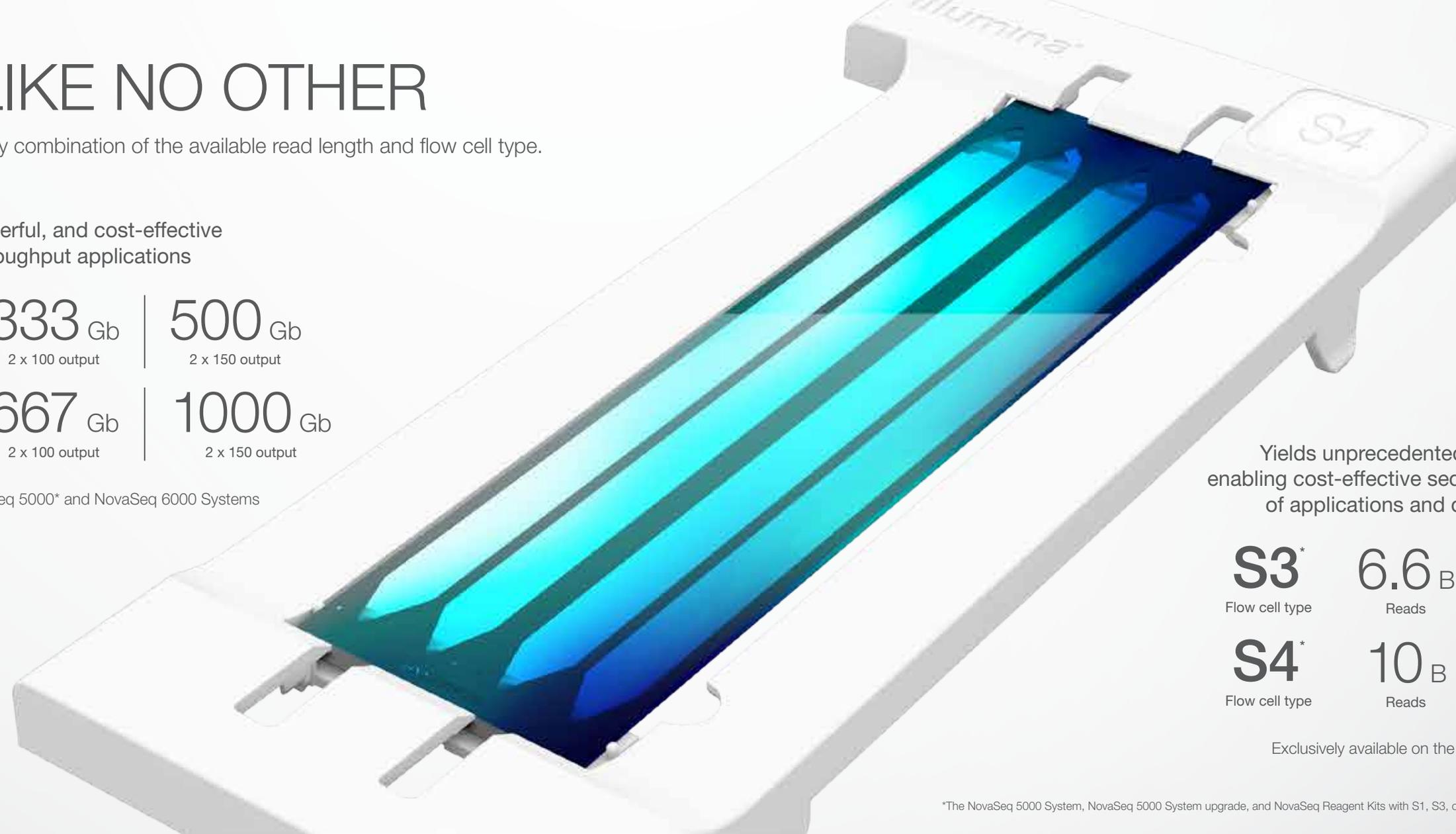
S1* Flow cell type	1.6 B Reads	167 Gb 2 x 50 output	333 Gb 2 x 100 output	500 Gb 2 x 150 output
S2 Flow cell type	3.3 B Reads	333 Gb 2 x 50 output	667 Gb 2 x 100 output	1000 Gb 2 x 150 output

Available for use on both the NovaSeq 5000* and NovaSeq 6000 Systems

Yields unprecedented throughput while enabling cost-effective sequencing across a range of applications and depth of coverage

S3* Flow cell type	6.6 B Reads	2000 Gb 2 x 150 output
S4* Flow cell type	10 B Reads	3000 Gb 2 x 150 output

Exclusively available on the NovaSeq 6000 System





ONE PLATFORM. INFINITE POSSIBILITIES.

Whether you are interested in high-output applications like whole-genome sequencing (WGS), looking to complete multi-omics studies, or simply operating more cost effectively, the NovaSeq Series empowers you with new possibilities.

The platform is enabled by the broad portfolio of Illumina library preparation kits, providing the flexibility to run your applications on any scale—from single cells to an entire population. The NovaSeq Series also supports single-read and paired-end sequencing, with read lengths of up to 2×150 bp—allowing you to adapt the run to meet your study's specific needs. Whether exploring the genome, epigenome, or transcriptome, the possibilities for your research are endless.

A COMPREHENSIVE SEQUENCING ECOSYSTEM

The NovaSeq 6000 System is not only our highest-throughput sequencer, but it is also our most intuitive and easy-to-use platform, enabling a streamlined workflow across a broad range of applications.

1 MANAGE WORKFLOW

seamlessly with BaseSpace® Clarity LIMS or your existing laboratory information management system (LIMS). The NovaSeq Series is fully supported out of the box with BaseSpace Clarity LIMS while also providing key integration points for a wide variety of third-party LIMS.

2 PREPARE LIBRARIES

with a broad range of high-performance library preparation kits from Illumina. Additionally, the Illumina Qualified Methods program enables easy-to-access automation for key methods.

3 SEQUENCE

prepared libraries on the NovaSeq Series. Get data quality you can trust with proven sequencing by synthesis (SBS) chemistry more than a decade in the making.

4 ANALYZE DATA

with integration into BaseSpace Sequence Hub. Over 70 open-source and commercial bioinformatics apps support a broad range of experiment types. Share your results in the secure cloud environment.

5 INTERPRET RESULTS

and get the most out of your data, driving scientific discovery with BaseSpace Variant Interpreter (Beta) and BaseSpace Cohort Analyzer.





“NovaSeq gives customers access to power, breadth, and flexibility. This will ignite a whole new set of discoveries.”

FRANCIS DESOUZA, CEO, ILLUMINA

ACCELERATING BREAKTHROUGHS. ENABLING BETTER OUTCOMES.

The NovaSeq Series propels unprecedented progress in genomics—providing the flexibility and scalability to enable comprehensive research studies like never before—from high-resolution single-cell studies to tumor-normal profiles, liquid biopsies, and population-scale sequencing.

Together, we can accelerate significant breakthroughs that will increase our understanding of genetic factors underlying the onset of disease, resulting in better treatments and improved patient outcomes. Ultimately, we won't just react to illness—we'll optimize our wellness. The NovaSeq Series gets us one step closer to that reality.

THE POWER IS YOURS

Realize your scientific visions and shape the future of genomics with the NovaSeq Series. Providing unprecedented scalability and flexibility, the groundbreaking innovation behind NovaSeq charts the path toward broader, more comprehensive studies—enabling you to discover more than ever before.

Explore the NovaSeq Series at www.illumina.com/NovaSeq

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