

Applied Biosystems® SOLiD™ PI System

The Next-Generation Sequencing System for Every Lab

Key Benefits

- **Powerful**—robust benchtop system delivers up to 50 Gb of mappable sequence data or 800 M tags per run
- **Intuitive**—streamlined workflows and an easy-to-use software user interface
- **Rapid**—generates 3.5 Gb of mappable sequence data in less than 24 hours
- **Cost-effective**—low cost per sample for single or multiplexed runs
- **Versatile**—optimize for speed, throughput, or number of samples
- **Affordable**—helping to make next-generation sequencing accessible to more laboratories than ever before



Overview

Built on three decades of sequencing expertise and powered by the proven accuracy of ligation-based sequencing, the new SOLiD™ PI System provides a robust, and affordable next-generation sequencing platform for every lab. Designed to give you the choice to optimize for turnaround time or throughput, the SOLiD™ PI System provides a highly accurate, cost-effective solution for analyzing one or many samples.

System Attributes

Powerful Data Output From a Benchtop System

The easy-to-use benchtop SOLiD™ PI System generates up to 50 Gb of mappable sequence or 800 M tags in a single run. This level of data throughput enables accurate, cost-effective next-generation sequencing to support your research needs for many applications, including targeted resequencing, transcriptome analysis, and ChIP-Seq.

Sample and Throughput Versatility

The SOLiD™ PI System allows you to tailor your next-generation sequencing runs precisely for your research. You choose the quickest turnaround time, maximum throughput, or something in between.

The system's configurable FlowChip and intelligent barcode kits can accommodate from one to hundreds of samples in a single run.

Intuitive

Designed in collaboration with core facilities and principal investigators, the integrated SOLiD™ PI System provides an intuitive and user-friendly workflow from sample preparation to data analysis. Benefits include:

- Internal controls to enable real-time monitoring of data quality throughout the entire workflow
- System alerts to help maximize data quality and system performance, and to optimize reagent usage during the course of the run
- Easy-to-use software and standard base sequence file formats to facilitate setup, daily operations, and seamless integration with data analysis tools

Affordable

With the SOLiD™ PI System, next-generation sequencing is accessible to every lab. The total cost of ownership, including capital and run costs, is comparable to that of microarray analysis. Now you can explore the genome, transcriptome, and epigenome with a hypothesis-neutral platform that combines powerful sequence data generation with premium quality in accuracy.

The Next-Generation Sequencing System of Choice for Every Lab

The throughput, broad range of applications, system flexibility, and intuitive design of the SOLiD™ PI System address the needs of core and services laboratories, and basic and clinical research labs, to make next-generation sequencing more accessible than ever before.

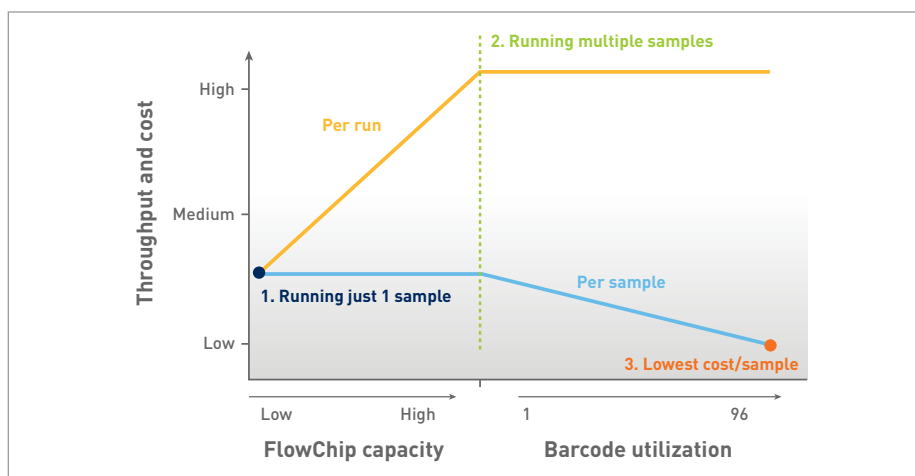


Figure 1. Flexibility of the SOLiD™ PI System. Adjust the configuration of the FlowChip to select the balance between throughput and cost per run that suits your needs. Use up to 96 barcodes to multiplex samples and reduce the cost per sample. Three scenarios: 1) a single sample and fast results; 2) maximum throughput generating 50 Gb or 800 M tags (at this scale, cost per run remains constant); 3) multiplexing samples with the use of barcodes, which reduces the cost per sample.

SOLiD™ PI System Specifications*

System Components	<ul style="list-style-type: none"> • Benchtop instrument and control software with user-friendly design • SOLiD™ PI System, 110 V (P/N 4452865) • SOLiD™ PI System, 220 V (P/N 4452866)
Dimensions	100 x 100 x 70 cm
Configuration	1 configurable FlowChip
System Accuracy	99.99%
Throughput/Run	Up to 50 Gb or 800 M tags (2 x 75 bp)
Read Length	<ul style="list-style-type: none"> • 1 x 75 bp (fragment) • 75 x 35 bp (paired-end) • Up to 2 x 75 bp (mate-paired)
Run Time	<ul style="list-style-type: none"> • As fast as 1 day for 1 x 35 bp
System Features	<ul style="list-style-type: none"> • Internal controls to enable pre- and real time-run checks to help maximize data quality and performance • Flexible system configuration allows cost-effective consumable usage
Consumables	Easy-to-use, application-specific kits
Multiplexing	96 barcodes for DNA and RNA applications

* Specifications subject to change.

Learn more about the SOLiD™ PI System at www.appliedbiosystems.com/solidpi

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