



Software

Expand your NGS data analysis with the Ion Reporter XL Server system

Generate insights securely, locally, and with room to grow

The Ion Reporter™ XL Server System hosts a locally deployed instance of Ion Reporter™ Software, enabling a secure, high-performance bioinformatics environment for next-generation sequencing (NGS) data analysis. This platform combines optimized data analysis tools with increased speed, capacity, and reliability compared to the previous generation. Combined with the Ion Reporter™ NGS workflow, the Ion Reporter XL Server System enables exceptional performance for large data generating research environments.

Key features:

- **Accelerated performance**—dual 20-core CPUs and 256 GB RAM enable fast computation for complex NGS workflows
- **Increased capacity**—40 TB of usable storage offers adequate space for large projects and multisample studies
- **Secured environment**—operate entirely within your laboratory network for compliant, controlled, and traceable analysis

Automated workflows for efficiency

Ion Reporter Software supports preconfigured workflows for many research applications, including cancer, inherited disease, reproductive health, and infectious disease research.

The Ion Reporter XL Server System is built to automate the workflow from sample to report. When a sequencing run is initiated, the Ion Reporter NGS workflow can be selected as part of the plan so that the data transfer and analysis are automated from run initiation to review of annotated variants. This helps save time and allows you to get answers fast with simplified and automated data transfer and analysis. Further integrate Ion Reporter Software within your research lab environment with the provided application programming interfaces (APIs), including those for automated data extraction.

Advantages of the Ion Reporter XL Server System:

- Located in your secure laboratory environment
- Configured specifically to handle the advanced analysis and annotation of Ion Reporter NGS workflows
- Service, support, and software for one year

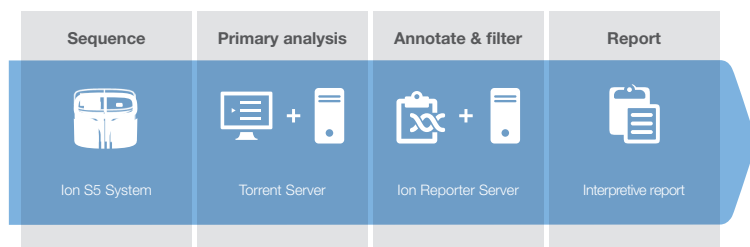


Figure 1. The Ion Reporter XL Server System easily integrates with Ion Torrent NGS workflows, including Ion Torrent™ products such as the Ion GeneStudio™ S5 System and the Torrent Suite™ Software, to automate your informatics needs from sequencing data to final interpretive reports.

Remember to renew your Ion Reporter Software license each year so that you can continue to enjoy all of the benefits of the updated software and additional workflows.

Bioinformatics designed for accuracy

Managing, and ultimately interpreting, the significant quantities of variant data produced by NGS presents a formidable challenge. The Ion Reporter workflow helps ensure you get high-quality data by prioritizing and annotating driver variants. It completes with a report that simplifies your bioinformatics path to discovery by enabling you to focus on finding the biological meaning of your data.

For example, for tumor mutational burden (TMB), a custom variant calling and germline variant filtering algorithm is used to accurately estimate somatic variants in the cancer research sample. Detection of single-nucleotide polymorphisms (SNPs), insertions and deletions (indels), copy number variations (CNVs), gene fusions, and aneuploidies in a single automated workflow is enabled by using our custom germline and somatic algorithms.

Consistency across versions of the software is established by verifying each release with a mix of control and clinical research samples, measuring relevant variants that have been previously detected with another technology. These workflows can be used to analyze a variety of research samples, such as single samples, paired tumor/normal samples, and family trios. Workflows are flexible to enable custom optimization and can also be locked to enable controlled use without depending on the advanced skills of a bioinformatician.

Specifications for the Ion Reporter XL Server System:

- Dual 20-core CPU
- 256 GB RAM
- 40 TB of usable storage
- Ubuntu (version) Operating System

Ordering information

Product	Cat. No.
Ion Reporter XL Server System	4487118XL

Ongoing support options

Product	Cat. No.
Ion Reporter one-year software license and hardware support for second and future years	ZG10SCIRLCLSRVR
Ion Reporter one-year hardware support for second and future years	ZGPCSCIRLCLSRVR

Learn more at thermofisher.com/ionreporter

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