

Faster and more secure data analysis

Characterize sequencing variants efficiently and securely using the Ion Reporter Server



The Ion Reporter™ Server hosts a locally deployed instance of Ion Reporter™ Software, combining an optimized suite of simple data analysis tools with the control and access of a powerful computer server in your own building. Ion Reporter Software supports the analysis of data from several Ion S5™, Ion S5™ XL, Ion PGM™, or Ion Proton™ Systems, covering a growing number of research applications, from human variant detection to microbial diversity.

Key benefits

- **Efficient**—fast upload and access to your data
- **Secure**—designed to the same robust security standards as described in the HIPAA rules, standards, and implementation guidelines for clinical research
- **Automated**—push-button data analysis with preconfigured workflows and integration with Ion Torrent™ informatics solutions
- **Convenient**—provides support for unlimited data analyses from up to four Ion S5, Ion S5 XL, Ion PGM, or Ion Proton Systems

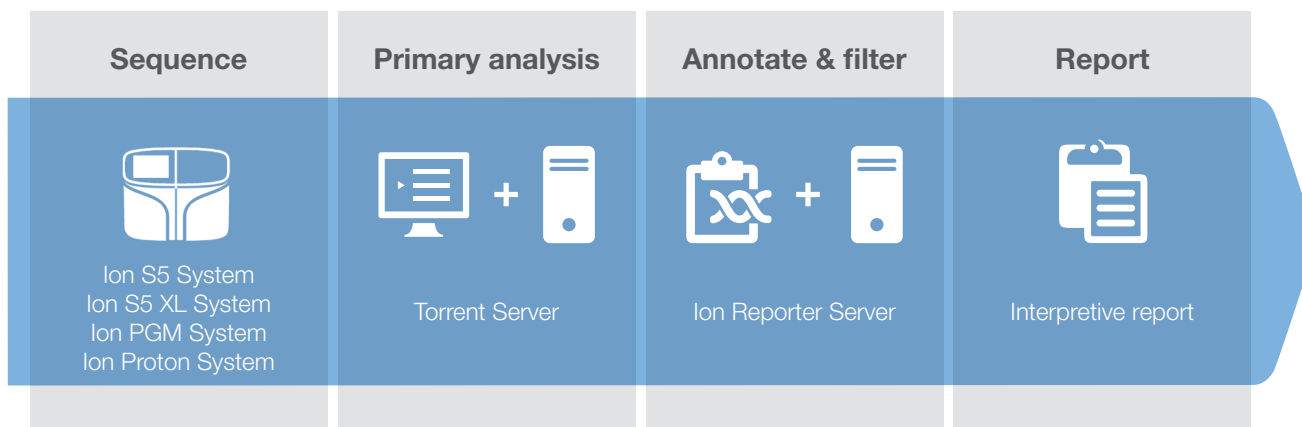


Figure 1. Ion Torrent™ data analysis solutions easily integrate to automate your informatics needs by streamlining data analysis from sequencing data to final interpretive reports. Simple run-planning templates enable automated data transfer from the Torrent Server to the Ion Reporter Server for variant analysis, including result filtering, annotation, and final report generation using Ion Reporter Software.

Fast results with automated workflow

The Ion Reporter Server is built to automate the workflow from sample to report. When a sequencing run is initiated on an Ion Torrent™ sequencer, an Ion Reporter workflow can be selected 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 faster with streamlined, automated data transfer and analysis. Further customize and integrate Ion Reporter Software within your research lab environment with the provided APIs, including those for automated data extraction. Free yourself from the pain of data analysis and focus on what really matters—discovering the biological meaning of your data.

Flexible analyses with controlled pipelines

Many research applications, including in the areas of oncology, inherited diseases, reproductive health, and infectious diseases, are supported within Ion Reporter Software using preconfigured workflows for Ion AmpliSeq™ panels and Ion Torrent™ OncoPrint™ research assays. These workflows can be used to analyze single samples, paired tumor/normal samples, and family trios. Detect SNPs, indels, CNVs, gene fusions, and aneuploidies in a single automated workflow using our custom germline and somatic algorithms. Ion Reporter™ Software also provides a 16S metagenomics workflow that enables you to assess population diversity of a polymicrobial sample, based on 16S variable regions. Workflows are flexible to enable custom optimization and can also be locked to enable controlled use without depending on an analyst or bioinformatician.

Ordering information

Product	Cat. No.
Ion Reporter Server System (includes first-year software license and 3-hour online training)	4487118
Ion Reporter 1-year software license and hardware support	ZG10SCIRLCLSRVR
Bioinformatics consulting plan (1 year)	ZGPCSCIONBFX
IT administration support contract (1 year)	ZGPCSCIONBFXSERV

Find out more at thermofisher.com/ionreporter

Ion Reporter Server specifications

Dual 10-core E5 2.6 GHz CPUs
 128 GB RAM
 15 TB of usable storage
 Ubuntu™ 14.04 LTS operating system

	Ion Reporter Software
Automated uploads from sequencer	✓
Read mapping, variant calling, and full annotation in a single workflow	✓
Support for custom annotations	✓
IT support contract (1 year)	✓
Annotate industry-standard VCF files	✓
Single-sample analysis	✓
Paired-sample analysis	✓
Tumor/normal somatic analysis	✓
Genetic trio analysis	✓
CNV detection in targeted genomic regions	✓
Role-based logins	✓
Collaborations	✓
Audit tracking and reporting	✓
Latest security protocols (256-bit encryption)	✓