

Ion Chef™ & Ion S5™ Sequencing Systems

(Research Use Only)

For Use with NXType™ NGS Typing Kits

Key Benefits

Ion S5 System

Fast, Flexible Next Generation Sequencing

Speed

Complete sequencing in less than 5 hours

Simplicity

Shorten instrument setup to less than 5 minutes

Scalability

Process up to 96 samples in a single run

Software

Shorten time to results with automated genotyping

Support

Get front line support for the entire workflow

Ion Chef System

Simple, reproducible, automated workflow

Automate Template Preparation

- Isothermal Amplification
- Enrichment
- Chip loading

Reduce labor

Complete instrument set up in less than 10 minutes with cartridge-based reagents

Standardize results

Eliminate variability with automation and on-board reagent tracking



NXType NGS Assays on the Ion S5 Sequencing System

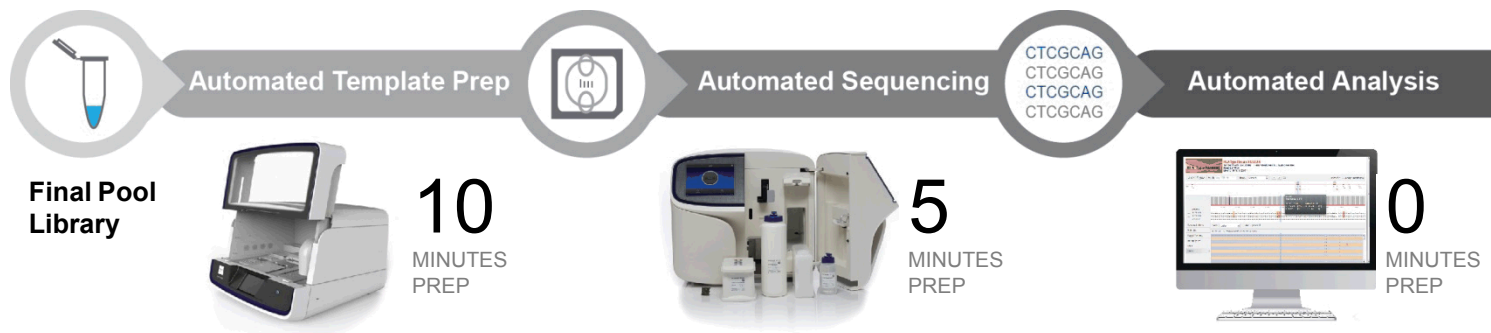
Ion Torrent's new Ion S5 and S5 XL Systems integrate seamlessly into your work environment, incorporating a number of design innovations that bring both speed and simplicity to your workflow. Go from sample to results quickly without compromising performance or reliability.

The Ion Chef System compliments the S5 by bringing walk-away convenience to template preparation with cartridge-based reagents and push-button simplicity. Clonal amplification, enrichment and loading of a single sequencing chip has never been so easy.

The S5 platform also uses cartridge-based consumables to enhance consistency and significantly shorten setup time.

Semiconductor sequencing technology captures natural biological activity and translates the information directly into digital nucleotide base calls. This direct-to-digital approach allows the Ion S5 systems to complete sequencing runs in as little as five hours, a fraction of the time required by traditional light-based sequencers.

Workflow



System specifications

Instrument	Ion OneTouch™ ES	Ion Chef System	Ion S5 System	Ion S5 XL Server *
Power	Voltage: 99-132/198-264V Current (max): 0.5 A Frequency: 50/60 Hz Power draw: 410 W	Voltage (max): 100V – 240V Current (max): 14 A Frequency: 50/60 Hz Power draw (max): 1,350 W	Voltage (max): 100V – 240V Current (max): 14.5 A Frequency: 50/60 Hz Power draw (max): 1,350 W	Voltage (max): 100V – 240V Current (max): 6.7 A Frequency: 50/60 Hz Power Draw: 1,100 W
Dimensions	Width: 27.9 cm (11.0 in) Depth: 31.8 cm (12.5 in) Height: 24.1 cm (9.5 in)	Width: 71.4 cm (28.1 in.) Depth: 70.0 cm (27.6 in.) Height (closed): 56.1 cm (22.1 in.) Height (open): 83.9 cm (33.0 in.)	Width (closed): 54.2 cm (21.4 in.) Width (open): 86.4 cm (34.0 in.) Depth: 80.6cm (31.8 in.) Height: 50.9cm (20.0 in.)	Width: 21.6 cm (8.5 in) Depth: 56.6 cm (22.3 in) Height: 56.6 cm (22.3 in)
Weight	5.4 kg (12.0 lb.)	68.2 kg (150 lb.)	63.5 kg (140 lb.)	45kg (100 lb.)

*A single free-standing tower computer appliance, included with the purchase of the Ion S5 XL System. Includes Torrent Suite™ Software with all necessary software components to deliver signal processing, base calling, read alignment, and variant calling.

Ordering Information

Instruments			Cat. No.
<i>For Research Use Only. Not for use in diagnostic procedures.</i>			
Ion S5 System			IONS5
Ion S5 XL System			IONS5XL
Ion Chef System			IONCHEF
Ancillary equipment			Cat. No.
Ion OneTouch ES, 120V			ION-OT120
Ion Chip™ Minifuge, 120V			ION-M120
Reagents	Template Prep	Runs	Cat. No.
Ion S5/IA/530 Reagents Kit	Manual	8	IONS5-IA-530
Ion 520™ & Ion 530™ ExT Kit - Chef	Ion Chef	4	IONCHEF-EXT
Ion 530 Chip kit		4	IONS5-530C4

Find out more at onelambda.com

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 **ONE LAMBDA**
A Thermo Fisher Scientific Brand

21001 Kittridge Street
Canoga Park, CA 91303-2801, USA
TEL: 818.702.0042 | 800.822.8824
(except greater LA area)
FAX: 818.702.6904 | 800.992.2111
(U.S. and Canada Only)
INTERNATIONAL: Contact your local distributor

