

# SeqStudio Genetic Analyzer

## Key features

- Integrated cartridge for minimal hands-on time (polymer, array, pump, anode buffer—all in one unit), helps reduce human error
- Sanger sequencing and fragment analysis on the same run
- Interactive touch screen with easy-to-use interface
- Auto-calibration (no spatial or pre-run spectral calibration required)
- Wi-Fi or LAN connectivity
- Web-enabled remote monitoring capability
- Tracking of consumables usage



## Instrument specifications

<b>Number of capillaries</b>	4
<b>Number of dyes</b>	6
<b>Sample format</b>	96-well standard plate and standard 8-tube strips
<b>Applications</b>	Sanger sequencing (resequencing NGS confirmation, indels; heterozygote detection; minor variant detection) Fragment analysis (microsatellite analysis, compatible with MLPA™, Applied Biosystems™ SNaPshot™ applications, cell line authentication)
<b>Dimensions</b>	49.5 x 64.8 x 44.2 cm (W x D x H)
<b>Weight</b>	45.4 kg
<b>Power input</b>	100–240 V
<b>On-instrument memory</b>	128 GB, approximately 3,500 injections or 14,000 reactions
<b>On-instrument tracking</b>	RFID (radio-frequency identification)
<b>Secondary analysis</b>	<ul style="list-style-type: none"> <li>• Applied Biosystems™ Sequence Analysis Software</li> <li>• Applied Biosystems™ SeqScape™ Software</li> <li>• Applied Biosystems™ Variant Reporter™ Software</li> <li>• Applied Biosystems™ GeneMapper™ software</li> <li>• Applied Biosystems™ Minor Variant Finder Software</li> <li>• Applied Biosystems™ Analysis Modules (Quality Check, Variant Analysis, and Next-Generation Confirmation) on Thermo Fisher Connect</li> </ul>
<b>Warranty</b>	1 year
<b>Training</b>	1-day SmartStart orientation
<b>Connectivity</b>	Wi-Fi and RJ-45 Ethernet ports
<b>Configuration</b>	Stand-alone, optional desktop or laptop computer

## Cartridge specifications

Capillary array length	28 cm*
Maximum number of injections/reactions	125 injections/500 reactions or samples
Polymer type	POP-1 polymer (for performing sequencing and fragment analysis)
On-instrument shelf life	4 months after opening
Storage	2–8°C
On-instrument tracking	RFID (radio-frequency identification)

## Optional desktop computer: minimum specifications

Memory	16 GB (2 x 8 GB), 1,333 MHz DDR3**, Non-ECC**
Processor	4th Generation Intel Core™ i7 Processor; maximum turbo boost frequency: 3.1 GHz
Hard drive	2 x 500 GB SATA 3.0 GB/s and 8 MB data burst cache
Operating system	Microsoft™ Windows™ 7 system

## Optional laptop computer: minimum specifications

Memory	4.0 GB, 1,333 MHz DDR3** SDRAM†
Processor	Intel Core i7-2640M Dual Core; frequency: 2.80 GHz; cache: 4 MB
Hard drive	500 GB; 7,200 rpm spin speed
Operating system	Microsoft Windows 7 system

\* Works with POP-1 polymer to resolve short and long reads.

\*\* DDR3: double-data rate type 3, ECC: error-correcting code.

† SDRAM: synchronous dynamic random access memory.

## Ordering information

Product	Cat. No.
Applied Biosystems™ SeqStudio™ Genetic Analyzer System with SmartStart	A35644
Applied Biosystems™ SeqStudio™ Genetic Analyzer	A34274
Applied Biosystems™ SeqStudio™ Analysis Software	4443764
Applied Biosystems™ SeqStudio™ Cartridge	A33671
Applied Biosystems™ SeqStudio™ Starter Kit	A35000
SmartStart SeqStudio™ Full Day	A34684
Cathode buffer container	A33401
Integrated capillary protector	A31923