applied biosystems



SPECIFICATION SHEET

SeqStudio Genetic Analyzer

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 carried out on the same run
- Interactive touchscreen with easy-to-use interface
- Autocalibration
- Wi-Fi or local area network (LAN) connectivity



- Traceability and data security with an optional security, audit, and electronic signature (SAE) software module*
- Web-enabled remote monitoring and control capability**
- Tracking of consumables usage

Instrument specifications				
Number of capillaries	4			
Number of dyes	6			
Sample format	96-well standard plate and standard 8-tube strips			
Applications	Sanger sequencing (next-generation sequencing (NGS) confirmation, indel analysis, heterozygote detection, minor variant detection microbial identification, genome editing verification) Fragment analysis (microsatellite analysis, compatible with MLPA™ PCR, Applied Biosystems™ SNaPshot™ applications, cell line authentication)			
Dimensions (W x D x H)	49.5 x 64.8 x 44.2 cm			
Weight	53.6 kg			
Power input	100-240 V			
Internal hard drive storage	128 GB, approximately 3,500 injections or 14,000 reactions			
On-instrument tracking	Radio-frequency identification (RFID)			
Secondary analysis	 Applied Biosystems[™] Sequence Analysis Software Applied Biosystems[™] SeqScape[™] Software Applied Biosystems[™] Variant Reporter[™] Software Applied Biosystems[™] GeneMapper[™] Software 	 Applied Biosystems[™] Minor Variant Finder Software Applied Biosystems[™] Analysis Modules (Quality Check, Variant Analysis, Peak Scanner, Microsatellite Analysis, and Next-Generation Confirmation) on Connect platform 		
Warranty	1 year included; extended warranties available			
Training	SmartStart orientation (includes 1-day, on-site field application scientist training and setup with Connect platform and online Instrument Management)			
Communication interface	Connect platform with cloud-enabled systems, Wi-Fi, and RJ-45 Ethernet ports			
Configuration	Stand-alone; optional desktop or laptop computer			

Run module specifications						
Run module	Bases (QV30 CRL†)	Samples [‡]	Approximate run time			
ShortSeq	350 bp	192	30 min			
MediumSeq	500 bp	128	45 min			
LongSeq	800 bp (QV20)	48	≤2 hr			
ShortSeq BDX	350 bp	172	33 min			
MediumSeq BDX	500 bp	120	45 min			
LongSeq BDX	800 bp (QV20)	48	≤2 hr			

Run module	Size range	Samples [‡]	Approximate run time	Sizing precision: 60-460 bp	Sizing precision: 461–600 bp, 600–800 bp
SNaPshot	40-120 bp	230	25 min	< 0.50	NA
FragAnalysis	60-460 bp	128	45 min	< 0.15	NA
LongFragAnalysis	60-800 bp	48	≤2 hr	<0.15	<0.30, <0.45

^{*} SAE enablement requires on-site field service engineer and PC (desktop or laptop) purchased from Thermo Fisher Scientific.



^{**} Feature not available if optional SAE software module enabled.

[†] Contiguous read length (CRL) is defined as the longest uninterrupted segment of bases, calculated over a sliding window of 21 bp.

[‡] Samples calculated over a 24 hr time period. Each run (injection) has 4 samples, and 1 sample equals 1 reaction.





28 cm*		
Up to 125 injections/500 reactions or samples (Applied Biosystems™ SeqStudio™ Cartridge v1)		
Up to 250 injections/1,000 reactions or samples (SeqStudio Cartridge v2)		
Applied Biosystems™ POP-1™ polymer (for performing sequencing and fragment analysis)		
4 months (SeqStudio Cartridge v1) or 6 months (SeqStudio Cartridge v2) after opening		
2-8°C		
RFID		
For more details, go to thermofisher.com/seqstudiorecycling		
mum specifications		
16 GB (2 x 8 GB), 1,600 MHz DDR3,** non-ECC**		
4th generation Intel Core™ i7-4770S processor (Quad Core HT, 3.10 GHz turbo, 8 MB, with HD graphics 4600)		
2 x 500 GB SATA 3.0 GB/sec and 8 MB data burst cache		
Microsoft™ Windows™ 10 system		
um specifications		
16 GB (2 x 8 GB), 2,400 MHz DDR4 [†]		
6th generation Intel Core i5-6440HQ processor (Quad Core, 2.6 GHz; 6 MB cache)		
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M2.2 256 GB SATA Class 20 solid-state drive		

^{*} Works with POP-1 polymer to resolve short and long reads.

Ordering information

Product	Cat. No.
SeqStudio Genetic Analyzer System with SmartStart	
Includes:	
SeqStudio Genetic Analyzer	A35644
SeqStudio Genetic Analysis Software	
1-day SmartStart orientation for SeqStudio Genetic Analyzer 1-year warranty	
SegStudio Genetic Analyzer System with SmartStart plus 1-year extended warranty	
Includes all items from A35644 plus additional 1-year warranty	A35645
SeqStudio Genetic Analyzer System with SmartStart plus 3-year extended warranty	405040
Includes all items from A35644 plus additional 3-year warranty	A35646
SeqStudio Starter Kit	A35000
SeqStudio Cartridge v1	A33671
SeqStudio Cartridge v2	A41331
Cathode Buffer Container (4 pk)	A33401
Cathode Buffer Container Reservoir Septa (20 pk)	A35640
96-Well Plate Septa (20 pk)	A35641
8-Strip Tube Septa (24 pk)	A35643
Integrated Capillary Protector	A31923
IQ/OQ/IPV for SeqStudio fragment analysis	A34549
IQ/OQ/IPV for SeqStudio sequencing analysis	A34551
IIQ/OQ/IPV for SeqStudio fragment and sequencing analysis	A34530
SAE Administrator Console Software v2.0 (optional)	A46170

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^{**} DDR3 = double-data rate type 3, ECC = error-correcting code.

[†] DDR4 = double-data rate type 4.