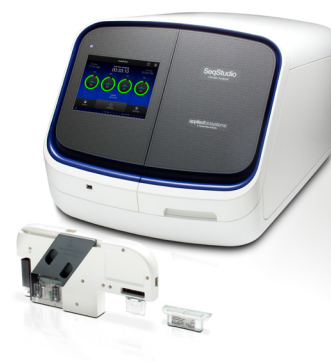# appliedbiosystems

SeqStudio Genetic Analyzer for Human Identification (HID)
Answers you can trust, in just one click

Key features

- Integrated cartridge including polymer, array, pump, and anode buffer—all in one unit to minimize instrument setup and maintenance time

- Optimized data collection software and validated performance with Applied Biosystems™ short tandem repeat (STR) kits

- Interactive touchscreen with easy-to-use interface

- Autocalibration

- Wi-Fi or LAN connectivity

- Includes security, audit, and e-signature (SAE) software and plate manager software

- Radio frequency identification (RFID) for tracking key consumables data

Instrument specifications	
Number of capillaries	4
Number of dyes	Up to 8 dyes
Sample formats	96-well standard plate and standard 8-tube strips
Applications	Fragment analysis including HID-specific workflow—preconfigured for Applied Biosystems STR kits to simplify run setup and software navigation Sanger sequencing
Validated STR kits for HID	Applied Biosystems™ GlobalFiler™, GlobalFiler™ IQC, GlobalFiler™ Express, VeriFiler™ Plus, VeriFiler™ Express, Huaxia™ Platinum, Identifiler™ Plus, MiniFiler™, NGM SElect™, NGM Detect™, YFiler™, and YFiler™ Plus PCR Amplification Kits
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	RFID
Secondary HID analysis software	Applied Biosystems™ GeneMapper™ ID-X Software v1.6
Warranty	1 year included; extended warranties available
Training	1-day, on-site field application scientist training Optional HID University training Human Identification Professional Services (HPS) for validation and verification
Communication interface	Connect platform with Wi-Fi and RJ-45 Ethernet ports
Configuration	Stand-alone; optional desktop or laptop computer

Run module specifications				
Run module	Size range	Samples*	Approximate run time	Sizing precision: 60–470 bp
HIDAnalysis	60–470 bp	147	39 min	<0.15

* Samples calculated over a 24-hour time period. Each run (injection) has 4 samples, and 1 sample equals 1 reaction.

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Cartridge specifications	
Capillary array length	28 cm*
Maximum number of injections/reactions	Up to 250 injections/1,000 reactions or samples (Applied Biosystems™ SeqStudio™ Cartridge v2)
Polymer type	Applied Biosystems™ POP-1™ polymer (for performing sequencing and fragment analysis)
Instrument tracking of shelf life	6 months (SeqStudio cartridge v2) after opening
Storage	2–8°C
On-instrument tracking	RFID
Recycling	For details, go to **thermofisher.com/seqstudiorecycling**

Optional desktop computer: minimum specifications	
Memory	16 GB (2 x 8 GB), 1,600 MHz DDR3,** non-ECC**
Processor	4th generation Intel Core™ i7-4770S processor (Quad Core HT, 3.10 GHz turbo, 8 MB cache, with HD graphics 4600)
Hard drive	2 x 500 GB SATA 3.0 GB/sec and 8 MB data burst cache
Operating system	Microsoft™ Windows™ 10 system

Optional laptop computer: minimum specifications	
Memory	16 GB (2 x 8 GB), 2,400 MHz DDR4†
Processor	6th generation Intel Core™ i5-6440HQ processor (Quad Core, 2.6 GHz; 6 MB cache)
Hard drive	M2.2 256 GB SATA Class 20 solid-state drive
Operating system	Microsoft Windows 10 system

* Works with POP-1 polymer to resolve short and long reads.
** DDR3 = double-data rate type 3, ECC = error-correcting code.
† DDR4 = double-data rate type 4.

Ordering information

Product	Cat. No.
SeqStudio Genetic Analyzer for HID with Laptop Computer and Training*	A46228
SeqStudio Genetic Analyzer for HID with Desktop Computer and Training*	A46229
SeqStudio Genetic Analyzer for HID with Training*	A46227
SeqStudio Genetic Analyzer for HID Install Kit (sequencing & fragment analysis)	A46180
HPS Validation Service	HPS10101
HPS Verification Service	HPS10103
GeneMapper ID-X Software v1.6, full installation	A39975
GeneMapper ID-X Software v1.6, client installation**	A39976
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

* Additional warranty and training packages are available.
** Please inquire about additional GeneMapper ID-X Software package configurations.

Find out more at **thermofisher.com/seqstudio**

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