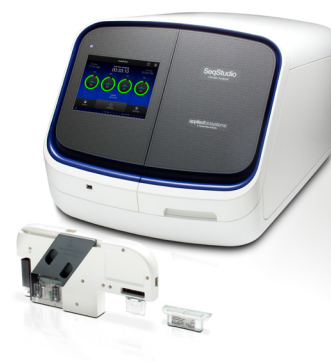


# SeqStudio Genetic Analyzer for Human Identification (HID)

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<br>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<br>Optional HID University training<br>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.

| 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 <a href="http://thermofisher.com/seqstudiorecycling">thermofisher.com/seqstudiorecycling</a> |

| 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](http://thermofisher.com/seqstudio)

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