

7500 Fast Dx Real-Time PCR Instrument



Your assays on your schedule—
a flexible solution for *in vitro* diagnostic use



The Applied Biosystems™ 7500 Fast Dx Real-Time PCR Instrument, with Sequence Detection System (SDS) Software, is a 96-well, 5-color real-time PCR instrument available for *in vitro* diagnostic use.

Based on Peltier block technology, the 7500 Fast Dx Real-Time PCR Instrument is designed to deliver the performance required for high-quality results, in a 96-well format. The SDS Software allows full control over thermal cycling protocols to further assist in developing or running custom assays.

7500 Fast Dx Real-Time PCR Instrument benefits

The 7500 Fast Dx Real-Time PCR Instrument is designed to deliver the performance required for high-quality results in a 96-well format while minimizing the effort required to perform sample setup and allowing the use of tube strips.

- Accommodates tube strips, which can be capped immediately after pipetting each sample
- Fast mode completes runs typically in less than 40 minutes
- Optional standard mode facilitates the use of standard-length real-time PCR assays without changing thermal cycling parameters
- 5-color variable excitation enables multiplex assays
- Proven performance with the reliability expected of Applied Biosystems instruments

SDS Software benefits

The software's Security, Auditing and E-Signature module offers the flexibility to develop assays and also run preoptimized protocols for users operating in a secure environment.

- Software wizards support the creation of customer genotyping, DNA quantification, gene expression and pathogen detection assays, resulting in versatile application support
- Template files can easily be saved and used to run assays that require set protocols
- Security features such as user login, user permission settings, system auditing and e-signature approvals are customizable to fit a range of security needs

7500 Fast Dx Real-Time PCR Instrument service and support

The AB™ Assurance Dx Service Plan provides for the following services and support:

- Unlimited repair calls and annual planned maintenance during the term of the contract
- On-site support by a certified field service engineer (varies by region/country)
- Parts, labor and travel (additional travel charges may apply)
- Qualification services after critical repairs and planned maintenance
- Priority phone and email access to instrument and application support

7500 Fast Dx Real-Time PCR Instrument specifications

Instrument

| Attribute | Description |
|---------------------------------|---|
| Thermal cycling system | Peltier-based, 96-well block |
| Optical system | CCD camera with halogen lamp excitation; 5 excitation and 5 emission filters |
| Calibrated dyes at installation | FAM™/SYBR™ Green, VIC™/JOE™, NED™/TAMRA™/Cy®3, ROX™/Texas Red™ and Cy®5 dyes |
| Passive reference dyes | ROX™ dye or any calibrated dye Use of a passive reference dye is optional |
| Reaction volumes | 10–30 µL |
| Sample format | Fast 96-well plates (100 µL) or 8-tube strips (100 µL) Optimized for 10 µL reactions |
| Performance | Distinguish between 5,000–10,000 genome equivalents (two-fold copy number difference) with 99.7% confidence |
| Peak block heating rate | 5.5°C/sec |
| Sample ramp rate | Fast mode: 3.5°C/sec; Standard mode; 1.6°C/sec |
| Temperature range | 4°C–99.9°C |
| Temperature accuracy | ±0.5°C |
| Temperature uniformity | ±1°C |
| Dimensions (W x D x H) | 34 x 45 x 49 cm (13.39 x 17.72 x 19.29 in.) |
| Weight | 34 kg (75 lb) |

Software

| Attribute | Description |
|--------------|---|
| Applications | Relative quantitation, absolute quantitation, allelic discrimination and presence/absence |
| Security | Customizable permission settings for 14 activities across 4 different user groups |
| Auditing | Audit trails can be enabled or disabled depending on your traceability needs |
| E-Signature | A selection of e-signatures is available to integrate into your workflow |

Ordering information

| Product | Quantity | Cat. No. |
|---|--------------|-------------------|
| 7500 Fast Dx Real-Time PCR Instrument, with laptop computer | 1 instrument | 4406984 |
| 7500 Fast Dx Real-Time PCR Instrument, with tower computer | 1 instrument | 4406985 |
| AB Assurance Dx Service Plan | | ZGD2-SC7500FASTDX |

The 7500 Fast Dx Real-Time PCR Instrument with SDS Software is intended for use in combination with *in vitro* diagnostic tests labeled for use on this instrument.
The 7500 Fast Dx instrument is intended for use by laboratory professionals trained in laboratory techniques, procedures and on the use of the system.

Find out more at thermofisher.com/7500series

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