

R.A.P.I.D.® LT System

Information Sheet



High Speed Real-Time PCR

The R.A.P.I.D. LT is a real-time PCR instrument capable of analyzing samples for the presence of targeted nucleic acid sequences. Built upon LightCycler® technology, this instrument combines rapid air thermocycling and a real-time fluorimeter to reliably identify test samples in less than 25 minutes. Because of its sensitivity, accuracy, and high speed, it is the ideal instrument for rapid pathogen identification and genotyping.

Included with the instrument is a laptop computer pre-loaded with easy-to-use run and analysis software. The software operates the instrument, automatically collects and analyzes data, then reports the results in an easy-to-read and printable format. An advanced version of the software is also available, which provides in-depth analysis tools for precise PCR analysis and information-management modules.

U.S. Patent Nos.: 6,787,388, 6,174,670, 6,197,520, 6,245,514, 6,303,305, 6,387,621, 6,503,720, 6,569,627, 6,730,501 and pending patents

- **Instrument**
 - Rapid air thermocycling
 - 32-sample capacity
 - 45 cycles in 25 minutes
 - Glass capillaries
 - Three-color optics
 - Accurate and highly reproducible results
- **Software**
 - Three analysis modules
 - Melting curve analysis
- **Reagents Available***
 - Validated
 - Freeze-dried

*Check Web site for complete list of assays



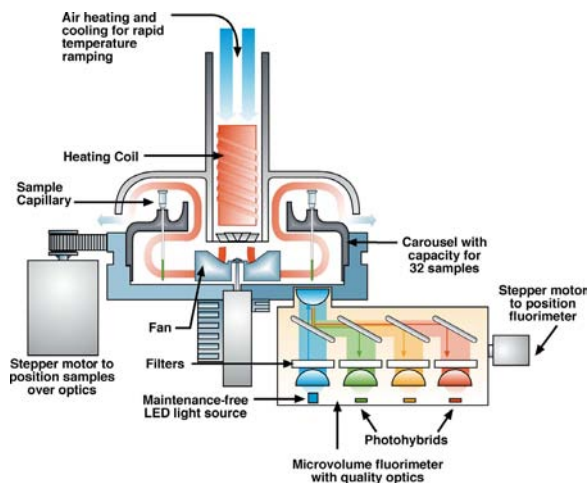
Innovative solutions for pathogen identification and DNA research

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Proven Instrument Design

The R.A.P.I.D. LT is a real-time PCR instrument based upon the original LightCycler® technology. Because of its unique design, test samples achieve a high uniformity of temperature and ultra-rapid transitions ensuring better results and cleaner melting curves.

- Heating and cooling are achieved by varying fan speeds and a controlled heating coil.
- Three-color optics module allows fluorescence monitoring over a wide range of wavelengths providing multiplex capabilities.



Intuitive Desktop Software

There are two versions of software. Each version has been designed to fit the needs of your growing laboratory.



- **Basic Version**—Provided with each instrument, this version is designed for those running Idaho Technology reagents only. Simply load the samples into the instrument, run an analysis, and view the results.
- **Full Version**—Our advanced version allows you to create and run custom tests and analyze the data in multiple ways. Perform advanced melting curve analysis, absolute quantification, and multiplex and color compensation with this version of software.

Ordering Information

Catalog No.	Instrument Options
RAPID LT-A	R.A.P.I.D. LT with Full Version Software
RAPID LT-B	R.A.P.I.D. LT with Basic Version Software

R.A.P.I.D. LT and Laptop Specifications

Sample Description

- 32-sample capacity
- Composite glass/plastic reaction vessel (Roche capillaries)
- 5–20 µL volume size

Fluorescence Acquisition

- Three-color optics modules
- Blue LED excitation with peak emission of 470 nm
- Emission wavelengths: 530, 640, and 705 nm

Power Supply

- 110/220 V auto-switching power supply unit
- 220/110 V, 50/60 Hz, 7.0/6.0 A, 650 W [8 A, 230 V, 3AG fuse required]

Instrument Dimensions and Weight (w x d x h)

- Size: 12" x 16" x 16" (30.4 x 40.6 x 40.6 cm)
- Weight: 25 lb (11.3 kg)

Performance Parameters

- Instrument setup time ≤ 45 min.
- Sample run time ≤ 25 minutes (Avg.)

Temperature Control

- Range: 40–100 °C

Desktop Software

- Pre-programmed protocols
- Windows-based software wizard to add samples and information
- Real-time display of fluorescent readings
- Customizable printable reports
- Automated Qualitative Analysis
- Advanced Melting Curve Analysis*
- Absolute Quantification Module*
- Multiplex and Color Compensation capable*

Laptop Computer

- Windows® XP Operating System
- Intel® Pentium® M Processor
- USB Ports (2)

Instrument Certifications

- CE Mark
- Manufactured under cGMP

*Full software version only

Parts List

The following items are included with the R.A.P.I.D. LT Instrument

Instrument

R.A.P.I.D. LT Instrument, Laptop Computer, Mini-centrifuge 120V, Serial Cable, 110V-120V Power Cord, R.A.P.I.D. LT Manual, Quick Guides (in Manual), R.A.P.I.D. LT Installation CD

Tool Kit

Phillips Screwdriver, Tri-Flow PTFE Lubricant, Nylon Brush

Start-up Kit

Centrifuge Adapters 1.5 mm (6), Lens Cleaning Tissue, Lens Cleaning Solution, Sample Reaction Capillaries