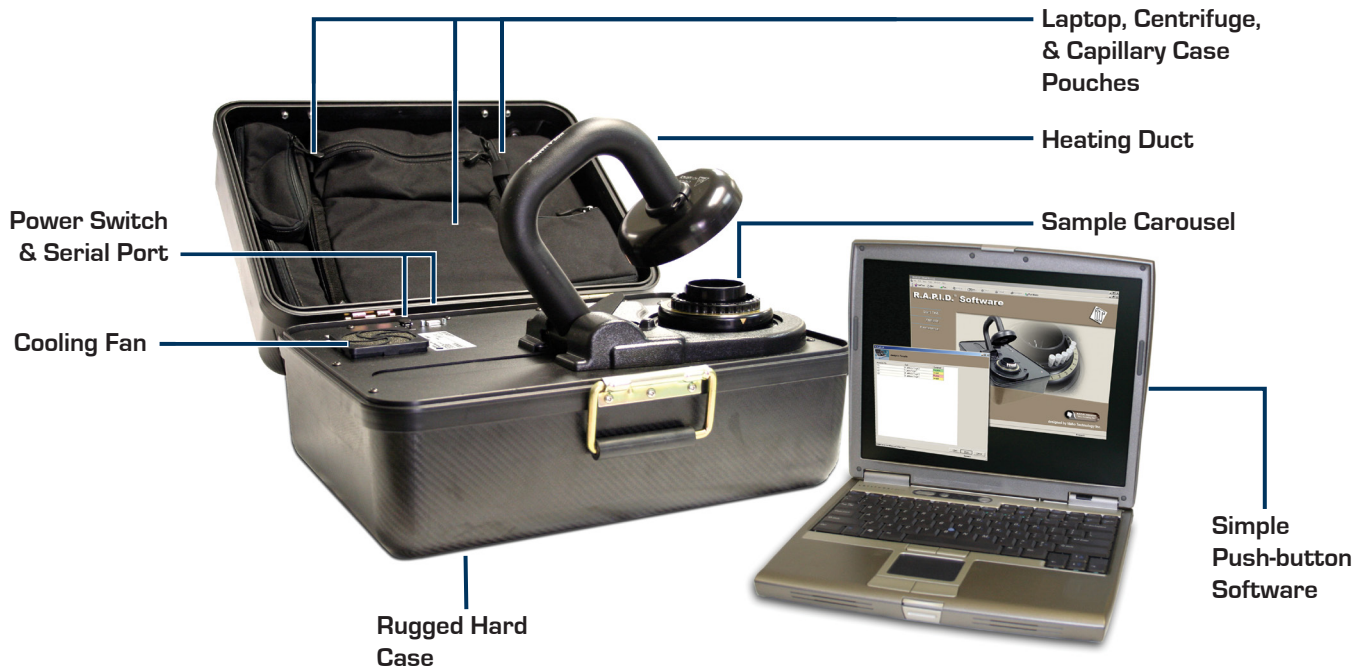


# R.A.P.I.D.® BioDetection System

## Information Sheet



## Complete Pathogen Identification Solution For Mobile Labs

The Ruggedized Advanced Pathogen Identification Device (R.A.P.I.D.) is a portable real-time PCR system designed to identify biological agents. Because of its rugged design, reliability, and sensitivity it has become the standard for the U.S. DoD and other militaries around the world. The R.A.P.I.D. is the ideal choice for mobile analytical labs and fields hospital.

This instrument integrates Idaho Technology's LightCycler® Instrument technology into a portable, impact resistant package. Distinctive software allows simple "push-button" use of the R.A.P.I.D. System by field personnel with minimal training. This allows for field identification of pathogens quickly, safely, and accurately.

The R.A.P.I.D. system can test for the following targets.\*

Hazmat	Food Safety	Water Safety	JBAIDS / US Federal	Environmental
Anthrax Ricin Smallpox Plague	<i>Listeria</i> <i>E. coli</i> O157 <i>Salmonella</i> <i>Campylobacter</i>	<i>Cryptosporidium</i> <i>Salmonella</i>	Tularemia Ebola Brucella Anthrax IVD	Avian Influenza Botulism Marburg

\*See ITI website for the complete list of targets.

- **Analysis:** tests up to 32 samples in less than 30 minutes.
- **Portable:** meets MIL-STD-810E Transport Standard.
- **Software:** simple wizard-based user interface.
- **Under 50 lbs/22.7 Kg:** includes instrument, laptop centrifuge, and sample tubes.
- **Freeze-dried reagents:** just add sample and water.
- **Training:** three-day training course included with purchase of system.
- **Validation:** tests proven to be accurate by the U.S. DoD.

### Environmental Testing and Verification

The R.A.P.I.D. system has been included in the U.S. Environmental Protection Agency's Environmental Testing and Verification program (ETV). This extensive testing validated the R.A.P.I.D. system's effectiveness for use in drinking water assessment for potential bioterror agents.



## The DoD Standard

Our R.A.P.I.D.® System has been chosen as the standard for the U.S. DoD for pathogen identification in both field and clinical settings. The Joint Biological Agent Identification and Diagnostic System (JBAIDS) program, based on the R.A.P.I.D. system, unifies the four branches of the military with a complete system to detect biothreat agents.



## Portable and Rugged

The R.A.P.I.D. was designed with mobility in mind.

- Meets MIL-STD-810E Transport Standard
- Passes 1-m drop test
- Passes 15-cm drop during operation test
- Durable carbon fiber case
- Air and water tight case

## Desktop Software

Each instrument arrives with a laptop computer pre-installed with software for running the R.A.P.I.D. The software will accommodate Idaho Technology commercial assays as well as the capability to create and run custom assays.

Software is very easy to use with a wizard-based interface, automated qualitative analysis, text delineated exportable data, and macros and templates. Simply load the samples in the instrument, run an analysis, and view the results. Advanced functions are available for high resolution data analysis:



- Multiple data analysis
- Advanced melting curve analysis
- Absolute quantification
- Multiplex
- Color compensation

## Validated Freeze-dried Reagents

ITI's high-quality reagents are easy to use for those seeking fast results and unparalleled accuracy. Each assay and test kit has been independently validated for sensitivity and specificity on the R.A.P.I.D. System. Contained in each reagent vial is all of the ingredients necessary for DNA amplification and fluorescence detection in a simple, convenient format. See our R.A.P.I.D. Reagent Information Sheet for a full list of reagents.



To learn more about how the R.A.P.I.D. System can benefit your security program as well provide a reliable method for testing pathogens, visit us at [www.idahotech.com](http://www.idahotech.com) or call 1-800-735-6544.

## Ordering Information

Catalog No	Instrument Options
RAPD-ASY-9200	R.A.P.I.D. Instrument and Laptop with Advanced Software

## Instrument Specifications

Sample Description
<ul style="list-style-type: none"> <li>• 32 sample capacity</li> <li>• 5–20 µL volume size</li> </ul>
Fluorescence Acquisition
<ul style="list-style-type: none"> <li>• Three-color optics modules 530, 640, 705 nm</li> <li>• Excitation wavelength peak at 470 nm</li> <li>• Acquisition modes: single, step, continuous</li> </ul>
Power Supply
<ul style="list-style-type: none"> <li>• 110/220 V auto-switching power supply unit</li> <li>• 220/110 V, 50/60 Hz, 7.0/6.0 A, 650 W (8 A, 230 V, 3AG fuse required.)</li> </ul>
Instrument Dimensions and Weight (h x d x w)
<ul style="list-style-type: none"> <li>• Size: 10.5 x 14.3 x 19.4 in. 26.6 x 36.3 x 49.2 cm</li> <li>• Weight: 50 lb</li> </ul>
Performance Parameters
<ul style="list-style-type: none"> <li>• Instrument set-up time ≤ 2 min.</li> <li>• Sample run time ≤ 25 minutes (average)</li> </ul>
Temperature Control
<ul style="list-style-type: none"> <li>• Range: Room temperature to 95 °C</li> <li>• Ramp rate control: 0.05–3.5 °C/s and max {20 °C/s, default setting}</li> </ul>
Laptop Computer
<ul style="list-style-type: none"> <li>• Microsoft® Windows® 7 Professional</li> <li>• Intel® Core 2 Duo P8400 Processor</li> <li>• Intel Integrated Graphics</li> <li>• 160 GB Hard Drive</li> </ul>
Instrument Certifications
<ul style="list-style-type: none"> <li>• U.S. EPA Environmental Technology Verification (ETV)</li> <li>• CE Mark</li> <li>• Manufactured under cGMP (U.S. FDA)</li> <li>• Meets MIL-STD-810E Transport Standard</li> </ul>

## Parts List

The following items are included with the instrument

Instrument
R.A.P.I.D Instrument, Laptop Computer, Backpack, Case Pouch Start-Up Kit, Case Pouch Laptop, Case Pouch Centrifuge, Case Pouch Capillary, Case Pouch Cords, Mini-centrifuge 120V, Serial Cable (DB9), Power Cord (100V–120V), Power Cord (220V–230V), System Manual, Quick Guides, Installation CD
Tool Kit
5/64" Hex Driver, Tri-Flow (PTFE Lubricant Teflon), Nylon Brush
Start-up Kit
Centrifuge Adapters 1.5 mm (6), Lens Cleaning Tissue, Lens Cleaning Solution, LightCycler® Capillaries, Spare Sample Carousel

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