**SMITHS DETECTION**
Technical Information

smiths

# RespondeR RCI™

## RAMAN CHEMICAL IDENTIFIER


**Feature Highlights**

- **Integrated computer with touch-screen interface**
- **Rechargeable battery with five hours field use**
- **Sealed for complete decontamination of system**
- **Waterproof and ruggedized**
- **Integrated sample vial compartment**
- **External sampling capability**
- **Weighs only 6 lbs.; 8 ¾" x 7 ½" x 4"**
- **Free software and library upgrades**

The RespondeR RCI (Raman Chemical Identifier) is a lightweight, hand-held spectrometer for the identification of unknown solids and liquids. This system is Smiths Detection's latest addition to its suite of products designed for use by First Responders.

Users decide whether to analyze using the integrated sample compartment or by the external sampling capabilities. Either way the result will be reliable, accurate and provided in less than 30 seconds. First Responders will also feel confident knowing that Smiths' proven ReachBack customer support hotline is available 24 hours a day, 7 days a week, 365 days a year to help verify date in any emergency situation.

Raman technology is ideal for identifying samples through glass or plastic bags, in mixtures or in water. The RespondeR RCI is entirely self-contained including computer and battery. The system is waterproof and has a typical battery life of 5 hours.

# Technical Data **RespondeR RCI™**

## General Specifications

| | |
|---|---|
| Technology | Raman spectrometry |
| Weight | 6 lbs. (2.72 kg) |
| Size | 8 ¾" x 7 ½" x 4" (22.2 x 19 x 10.1 cm) |
| Sample Interface | Glass vial or external* |
| Environmental Features | The system is waterproof. All external parts are resistant to bleach solution. |
| Operational Ranges | Operational in extreme weather and temperatures ranging from -7°C to 50°C. Humidity ranging from 0 – 100%. |
| User Interface | The RespondeR RCI software is a streamlined, touch-screen application using a Windows® operating system, controlled with finger or stylus. |
| Input/Output Devices | Mouse and keyboard compatible |
| Wireless Capability | Bluetooth enabled; indoor and outdoor capability |
| Power | Internal battery, mains<br>Run time and charge time is 5 hours each |
| External Data Storage | Full USB support<br>Flash devices<br>Floppy drive<br>CD-Rs |

## Included Libraries

WMD
Common White Powders
Common Chemicals
Explosives
Narcotics


* Point-and-shoot hardware contains a Class 3B laser. Avoid direct exposure to beam.


The RespondeR RCI is intended to provide initial determinations and to be used as an information resource in the field and not for absolute or conclusive identification of unknown substances. The results provided by the RespondeR RCI should be verified by other appropriate techniques. Smiths Detection makes no recommendations nor does it assume any liability for how the information is utilized.


**USA**

**Civil Market**
Smiths Detection-Danbury
21 Commerce Drive
Danbury, CT 06810
T: +1 203 207 9700
F: +1 203 207 9780
danbury@smithsdetection.com

**US Military Market**
Smiths Detection - Edgewood Inc.
2202 Lakeside Blvd.
Edgewood, MD 21040
T: +1 410 510 9100
F: +1 410 510 9491
militaryus@smithsdetection.com

**Service**
Smiths Detection Service Operations
21 Commerce Drive
Danbury, CT 06810
T: +1 203 207 9700
F: +1 203 207 9780
Toll-free: +1 888 473 6747
support.danbury@smithsdetection.com

**International**

**Germany**
Smiths Heimann GmbH
Im Herzen 4
65205 Wiesbaden
T: +49 (0)611 9412 0
F: +49 (0)611 9412 229
mail.germany@smiths-heimann.com

**UK**
Smiths Detection International UK
459 Park Ave.
Bushey, Watford
Herts WD23 2BW
T: +44 (0) 1923 294400
F: +44 (0) 1923 294401
uk@smiths-heimann.com

**France**
Smiths Heimann S.A.S.
36, rue Charles Heller
94400 Vitry sur Seine
T: +33 (0)1 55 53 55 55
F: +33 (0)1 46 80 34 99
mail.france@smiths-heimann.com

**Canada**
Smiths Detection - Toronto Ltd.
7030 Century Ave.
Mississauga, Ontario
Canada L5N 2V8
T: +1 905 817 5990
F: +1 905 817 5992

Smiths Detection Montréal Inc.
950 Bergar, Laval (Quebec)
Canada H7L 5A1
T: +1 (450) 967 0010
F: +1 (450) 967 7444
mail.canada@smiths-heimann.com

SecurMAR

833 Shannon Drive
Crown Point, IN 46307
Phone: 219-661-8964
Fax: 219-661-8965
sales@securmar.com


Modifications reserved 95589981 07/14/2006 © Smiths Detection

smiths