

# RC2<sup>PLUS</sup>

## Portable Radiation Detector



**Zero in on a potential radioactive source quickly and more effectively with the RC2<sup>PLUS</sup>**

### Updated Design with Advanced Features

The Basic RC2<sup>PLUS</sup> automatically sets an alarm threshold over the total background count rate average upon each startup. This allows the RC2<sup>PLUS</sup> to detect very low radiation levels even when hidden by shielding such as scrap metal, waste, or other dense material. The RC2<sup>PLUS</sup> utilizes a large internal, high grade PVT scintillator to maximize sensitivity.

- Improved sensitivity and greater response
- Easy to use
- Larger high definition display with multiple languages
- Lightweight with longer battery life
- RC2PLUS is available in two versions; Basic with Total Count version or the Advanced ROI Analysis versions

The RC2 plus is an effective hand-held detector that utilizes a large PVT plastic scintillation detector in order to provide sensitivity to Gamma and Beta. Operation of the RC2 plus is fully automatic and designed to allow fast and easy inspection of areas, containers or vehicles that might contain radioactive materials. The RC2 plus contains a state-of-the-art micro-controller and internal high speed electronic circuitry designed to automatically set the LOWEST-ACHIEVABLE-ALARM-LEVEL and to continuously monitor system operation in order to maintain consistent optimum performance. The RC2 plus is equipped with an internal rechargeable battery pack that eliminates the need for stocking and changing conventional batteries. In the event that radiation is detected a varying audio tone along with a vibrating handle will activate to help locate the source of radiation.

### Upgradable for Increased Flexibility

At any time the RC2<sup>PLUS</sup> Basic can be easily upgraded to the RC2<sup>PLUS</sup> Advanced. The RC2<sup>PLUS</sup> Advanced stores operator results in a histogram record which can be downloaded via USB to RadComm's PC software for further analysis. All Reports can be saved in PDF format and archived for future reference. Remote servicing/diagnostics and potential future software updates of the RC2<sup>PLUS</sup> can be achieved via an internet or network connection with RadComm's software application.

## SPECIFICATIONS:

### Size:

- Detector Dimensions
- 7" H(18cm) x 8-1/4" L(21cm) x 4" W (10cm)
- System weight: 3.4lbs (1.5kg)
- Detector Case: Durable plastic with protective silicone sleeve

### Electronics:

- Integral PMT with EM Shielding
- Audio & Visual Alarm with Vibration
- Stable Low Noise, High Voltage Power Supply
- Battery: Internal Lithium Ion with charge indicator
- Battery Life: up to 9 hours
- Battery Recharge Time:
- Wall charger: 2.5 hrs
- PC USB: 6 hrs (estimated)

### Environmental:

- Operating Temperature: -20°C (-4°F) to +60°C (140°F)
- Shock resistance: Complies with ANSI N42.34

### Display:

- Backlit RGB colour LCD 320x240 resolution
- Viewing area: 2.7"(7cm) x 2.1" (5.3cm)
- Basic: selectable units of measure: (CPS, uSv/h, uR/r)
- Advanced: Histogram format

### Software for Advanced:

- Menu Driven User Interface
- Configurable Data Storage with Backup
- Emailing capability (with network connection)

### Detector Specifications:

- PVT (Basic & Advanced): 4" x 3" x 2" (101.6mm x 76.2mm x 50.8mm)
- GM Tube (Advanced only), 0.59" x 1.9" (12mm x 45mm)
- Dose Rate Range, Basic: 1 uR/Hr - 10 mR/Hr (10nSv/hr to .1mSv/hr)
- Dose Rate Range, Advanced: 1 uR/Hr - 10R/Hr (10nSv/hr to 100mSv/hr)

### RC2PLUS - Docking Station (Optional)

- Docking Station charges RC2PLUS instrument
- Provides Area Monitoring while the RC2PLUS is docked
- Audio and Visual alarm with reset button
- Wall mounted with security lock
  - ✓ Weather Resistant Enclosure IP54 (Nema4) (305H x 254W x 190 D mm)
  - ✓ 25mm dia. Alarm LED
  - ✓ 25mm dia. Operational Status LED
  - ✓ 87-240 Vac 50/60 Hz/24V DC @ 500mm Input Power
  - ✓ Momentary Reset Button Internal Charger for RC2<sup>PLUS</sup> portable

### Response/Sensitivity

- Energy Range: 30 KeV – 2.0 MeV
- Gamma histogram:
- 256 Channels, channel capacity 16 bits

### RC2PLUS Basic vs Advanced

#### Each RC2PLUS Package Includes:

- RC2PLUS instrument charged and ready for use
- Hard shell carrying case
- Smart battery wall charger
- USB key with operation manual embedded
- Calibration certificate

Feature	Basic Option	Advanced Option
Search/Find	•	•
Total Counts	•	•
Dose Rate	•	•
Dose Rate Alarm		•
Histogram		•
Graph Plotting		•
ROI Analysis		•
ROI Alarm Threshold Settings		•
Date Storage		•
Accumulated Dose		•



Docking Station, Part no. RC\_RC2-Dock

