

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

- Improved sensitivity and greater response
- Easy to use
- Larger high definition display with multiple languages
- Lightweight with longer battery life
- RC2<sup>PLUS</sup> is available in two versions; Basic with Total Count version or the Advanced ROI Analysis versions



# RC2<sup>PLUS</sup>

## PORTABLE RADIATION DETECTION SYSTEM

### 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.

The Advanced RC2<sup>PLUS</sup> utilizes both a PVT scintillator and a Geiger-Mueller tube to perform "Region Of Interest" (ROI) Analysis which allows the operator to see the distributed gamma energies in a histogram form. Once the ROI ranges are selected, a specific alarm threshold can be set for each ROI. This unique technology dramatically increases sensitivity while decreasing the adverse effects of "noise" caused by ambient background radiation. The RC2<sup>PLUS</sup> provides many additional features such as Does Rate Alarm, Data Storage, and Graph Plotting.

### 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.

## RC2<sup>PLUS</sup> 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 20 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:

- Basic & Advanced utilizes PVT:  
Size 4"(101.6mm) x 3"(76.2mm) x 2"(50.8mm)
- Advanced also includes:  
Geiger-Mueller tube, size 0.59"(12mm) x 1.9"(45mm)

### Response/Sensitivity

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

### RC2<sup>PLUS</sup> Basic vs Advanced Each RC2<sup>PLUS</sup> Package Includes:

- RC2<sup>PLUS</sup> 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		✓

### RC2<sup>PLUS</sup> - Docking Station (Optional)

- Docking Station charges RC2<sup>PLUS</sup> instrument
- Provides Area Monitoring while the RC2<sup>PLUS</sup> is docked
- Audio and Visual alarm with reset button
- Wall mounted with security lock

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