

## 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 Total Count version or the Advanced ROI Analysis version
- RadView software for integration



# RC2<sup>PLUS</sup>

## HANDHELD RADIATION DETECTION SYSTEM

### Durable and Dependable

The RC2<sup>PLUS</sup> Basic 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 RC2<sup>PLUS</sup> Advanced 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 Accumulated Dose Rate Alarm, Data Storage, and Graph Plotting.

### Upgradable for Increased Flexibility

The RC2<sup>PLUS</sup> Basic can be easily upgraded to the RC2<sup>PLUS</sup> Advanced at any time. The RC2<sup>PLUS</sup> Advanced stores operator results in a histogram record which can be downloaded via USB to the RadView 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 the RadComm software application.

Meets ANSI N42.33-2019 American National Standard Portable Exposure Rate Meters for Homeland Security.

## Size

- Detector Dimensions:  
5.9" (15cm) H x 8.5" (21cm) L x 4" (10cm) W
- 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 charging LED indicator
- Micro-USB connector for battery charging and data transfer
- Battery Life: up to 20 hours continuous
- 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: 3.5" (8.9cm) TFT LCD
- Basic: selectable units of measure: (CPS,  $\mu$ Sv/h,  $\mu$ R/r)
- Advanced: Histogram graph

## Detector Specifications

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

## Response/Sensitivity

- Energy Range: 15 KeV – 2.0 MeV
- Sensitivity: 8 cps/ $\mu$ Ci at 1m with Cs-137
- Gamma histogram: 256 Channels, channel capacity 16 bits
- Dose Rate Measurement Range: ( $\pm$  30% accuracy)  
0.01  $\mu$ Sv/h ~ 0.1 mSv/h for Basic Model  
0.01  $\mu$ Sv/h ~ 10 mSv/h for Advanced Model
- Accumulated Dose Alarm: Configurable

## Software for Advanced Version

- Menu driven user interface
- Configurable data storage with backup
- E-mail capability (with network connection)

## 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		✓
RadView Software		✓

## 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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