

Zero in on a potential radioactive source quickly and more effectively with an RC2^{PLUS}

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



RC2^{PLUS}

PORTABLE RADIATION DETECTION SYSTEM

Updated Design with Advanced Features

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

The Advanced RC2^{PLUS} 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^{PLUS} provides many additional features such as Does Rate Alarm, Data Storage, and Graph Plotting.

Upgradable for Increased Flexibility

At any time the RC2^{PLUS} Basic can be easily upgraded to the RC2^{PLUS} Advanced. The RC2^{PLUS} 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^{PLUS} can be achieved via an internet or network connection with RadComm's software application.

Upgradable for Radon Detection

New technology for express analyzing (< 5min) Radon concentration in air by using low energy resolution PVT plastic scintillator and high energy resolution Lanthanum Bromide inorganic scintillator as the gamma-detectors.

RC2^{PLUS} Specifications:

Size:

- Detector Dimensions:
7" H(18cm) x 8-1/2" 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: 3.5"(8.9cm) TFT LCD
- Basic: selectable units of measure: (CPS, uSv/h, uR/r)
- Advanced: Histogram graph

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), for high dose rate

Response/Sensitivity

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

RC2^{PLUS} Basic vs Advanced Each RC2^{PLUS} Package Includes:

- RC2^{PLUS} 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^{PLUS} - Docking Station (Optional)

- Docking Station charges RC2^{PLUS} instrument
- Provides Area Monitoring while the RC2^{PLUS} is docked
- Audio and Visual alarm with reset button
- Wall mounted with security lock



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