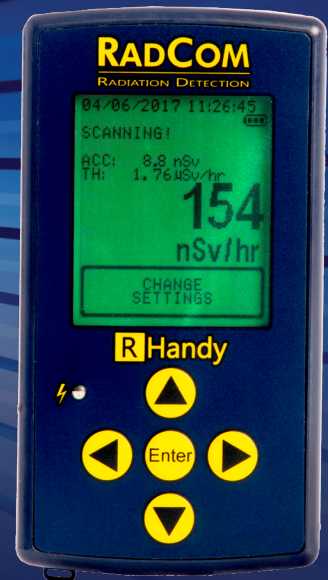**The RHandy portable fast responding radiation detector and dose rate meter will instantly measure any material for the presence of radioactivity whether it is clothing, food, water or even air.**

- Lightweight
- Easy to use
- Visual and audible alarms
- Automatic operation
- Adjustable alarm thresholds
- Economical solution

RHANDY

PORTABLE RADIATION DETECTOR

User Friendly and Economical Solution

The RHandy portable Fast Responding Radiation Detector and Dose Rate Meter will instantly measure any material for the presence of radioactivity whether it is clothing, food, water or even air. The adjustable alarm threshold setting can be set to a predetermined radiation level or the recommended factory default alarm threshold can be used.

The RHANDY is a very user friendly and economical solution for those requiring a portable radiation and contamination monitor. This portable handheld instrument will instantly detect and measure radioactivity and radioactive materials on clothing, food, water and the environment.

Easy to Use Operation

The user selectable alarm thresholds can be set to the desired radiation levels or the recommended factory default alarm thresholds can be used. Operation of the RHANDY is completely automatic, once the easy-to-set operational parameters have been configured. Simply position the unit in close proximity to the object that needs to be scanned and listen for the varying audio alarm to sound and observe the large easy to read display.

Dose Rate Meter

In addition to the quick response, the RHANDY can be used to monitor accumulated dose. Measure not only personal absorbed dose, but locate the unit near the air intake of a building for the tracking of accumulated dose of air filters or intake pathways. Tracking of an air intake filter will provide vital information in determining when to shut down a system or when to change the filter.

Size
- Detector dimensions: 4.35" L (11.04cm) x 2.35" W(5.97cm) x 1.17" H (2.97cm)
- Detector weight: 200g (0.25 lbs)

Operating Temperature:
- -10°C to +50°C (+14°F to +122°F)

Mechanical
- Five push button actuation
- Mini USB connector for internal battery charging
- Thru-hole arrangement for maximum radiation energy penetration
- Thru-hole for audio alarm

Electronics
- Micro-controller based architecture
- 6.35cm (2.5") LCD with backlight
- Resolution: 128 x 128
- Backlight Auto-Off (180 sec) with push button Auto-On
- 1.5" L x 0.5" Mica-Window GM tube
- Audio alarm
- Stable low noise H.V. power supply
- Internal 100 KB Flash Ram
- Internal rechargeable Li-Ion battery with charging LED indicator
- Battery life: 10 hours of continuous operation
- Battery recharge time: 4.5 hours based on 2200mAh battery

Response Sensitivity
- Energy range: 30KeV – 1.5MeV
- Dose rate range: 0.03μSv/hr to 1.0 Sv/hr (1.0 μR/hr to 100.0 R/hr)
- Gamma sensitivity: 60Co 18 (cps/mR/hr)
- Beta sensitivity: I-131 (max. 606 KeV) efficiency on contact is 97%
- Fast scanning response: 30.0 nSv/hr (3.0 μR/hr) change over ambient background
- Operating temperature range: -20 - +70°C
- Accumulated dose: 4000mSv (resettable)
- Radiation warning level: 5.0 μSv/hr (500.0 μR/hr)

Software
- Menu driven user interface
- Selectable features: Sensitivity, Date and Time, Units of Measure, Readings Update, Accumulation Time, Language
- Up to 6 Digit Auto-Scaling Displayed Radiation Level
- Selectable displayed units - CPS, Sv/hr, R/hr, (with auto scaling readout)
- Base sampling rate is 200 mSec, screen updates every 1/Second
- Battery level indicator: Three bars for Full Battery, Low Battery warning message with the battery bar flashing, 10% Battery Capacity Remaining Audio Beep Every One Minute, System will Turn Off at 5% Battery Capacity
- Warning messages: Scanning, Charge Battery, Initializing, Alarming, High Level Alarm, System Error, Calibration Required