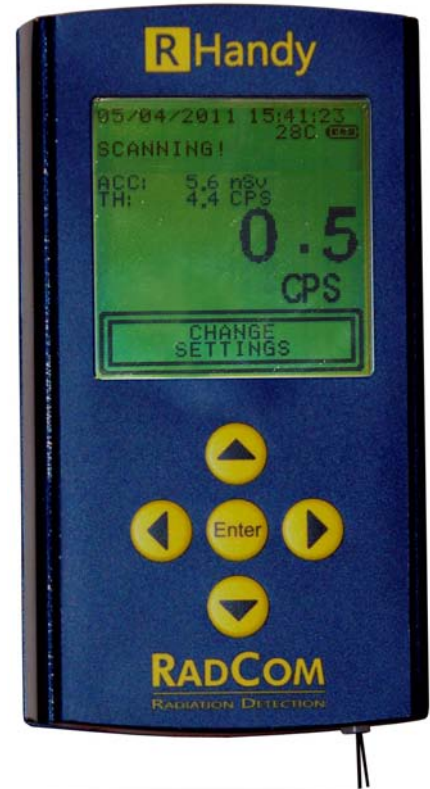


# RHandy

Portable Radiation Detector



The RHandy is a very user friendly and economical solution for those requiring an accurate and fast responding 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.

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.

In addition to the quick response, the RHandy can be used to monitor and record 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.

The user can select the desired units that are displayed on the LCD readout such as Counts per Second (CPS) or Dose-Rate (Sv/hr, or R/hr). The displayed radiation level is auto-scaling with simple warning messages.



Compact, Versatile and User-Friendly

# RHandy SPECIFICATIONS

## Mechanical

Rugged Case: 5.0" x 3.25" x 0.75" (12.7cm x 8.3cm x 4.5cm)

Weight 0.25 lbs (200g)

Operating Temperature Range: -20 - +70 °C

Display Window 6.4L x 6.4W cms (2.5" L x 2.5" W)

Mini USB Connector for Internal Battery Charging

Thru-hole Arrangement for Maximum Radiation Energy Penetration

Thru-hole for Audio Alarm

## Electronics

Detector: 1.5" L x 0.5" Mica-Window GM Tube

Micro-Controller Based Architecture

6.4L x 6.4W cms (2.5" L x 2.5" W) LCD with Backlight

Backlight Auto-Off (180 seconds) with Joystick Touch Auto-On

Stable Low Noise H.V. Power Supply

Internal 100 KByte Flash Ram

Internal Rechargeable Li Ion Battery with Charging Circuit

Battery Life: 10 hours continuous with Backlight

Battery Recharge Time: 4.5 hours based on 2200mAh Battery

## Software

Menu Driven User Interface

Menu Feature Selection Controlled by a Five Position Joystick

User Selectable Sensitivity, Date and Time, Units of Measure, Update Interval, Accumulation Time, Language

Up to 6 Digit Auto-Scaling Displayed Radiation Level

Display in CPS, Sv/hr, R/hr, (with auto scaling readout)

Base Sampling Rate is 200 mSec, Screen Updates Every 1/Second

Battery Level Indicator

## Response/Sensitivity

Radiation Detected; Alpha, Beta, Gamma

Energy Range: 30 KeV – 1.5 MeV

Dose Rate Range: 0.03 $\mu$ Sv/hr to 1.0 Sv/hr (3.0  $\mu$ R/hr to 100.0 R/hr)

Gamma Sensitivity: <sup>60</sup>Co 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  $\mu$ R/hr) Change Over Ambient Background

Accumulated Dose: 4000mSv (resettable)

Default Alarm Level: 5.0  $\mu$ Sv/hr (0.5mR/hr)

