

A powerful general purpose nuclear radiation monitor suitable for use with Geiger and Scintillation probes to measure alpha, beta and gamma radiation.

This cost effective, feature packed instrument is simple and easy to use. Count rate is displayed in large clear numbers and also on a bar scale.

Our smart averaging software means a steady display that can be read with confidence, yet provides a fast response.

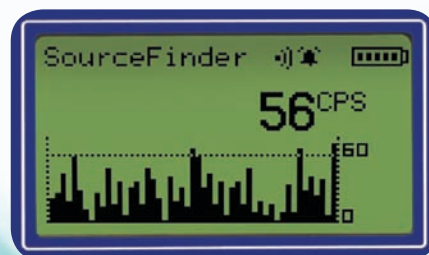
For source finding, one button push changes the display to a histogram plot. Alpha and Beta/Gamma counts can be displayed separately or on the same screen.

For surveying Radhound also has a time to count function.

## FEATURES

- Low cost and easy to use
- Clear digital LCD display with backlight
- GM and Scintillation detector options
- Scaler timer function
- Ergonomic tilt stand
- Wall mountable
- Fully adjustable alarm levels
- CE marked

The Radhound is designed, built and tested in the UK by Southern Scientific Ltd.



SOURCE FINDER SCREEN



INTEGRATOR SCREEN

## APPLICATIONS

- Health physics: for contamination monitoring on surfaces, clothing and objects etc.
- Nuclear medicine departments, suitable for  $^{125}\text{I}$ ,  $^{99}\text{Tc}$  etc.
- Radiological survey work and lab use
- Emergency planning, response and clean up
- Research applications

## SPECIFICATION

<b>Units</b>	CPS, CPM, $\mu\text{Sv/hr}$ with autorange
<b>Display</b>	Clear backlit LCD display
<b>Controls</b>	Power, up, down, OK (menu keys)
<b>Environmental</b>	Operating temperature $-10^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ Storage temperature $-25^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ In conformity with EMC directive (89/336/EEC) as amended by Directive 92/31/EEC Low Voltage Directive (73/23/EEC), EN61326-1, EN61000-3-2, EN6100-3-3. (CE mark). Designed to meet IEC 60325-2006 and IEC 60846-2004 Nuclear Instrumentation Standards
<b>Power</b>	Lithium Ion rechargeable, typically >12 hours continuous use. Charger supplied
<b>Cleaning</b>	Radhound is chemical resistant, and can be cleaned with Alcohol wipes
<b>Mechanical</b>	Dimensions 160 x 250 x 85 mm Approx (with stand)
<b>Range</b>	Typically 0 to 99,999 counts per second (range and units are software selectable depending on probe)
<b>Response Time</b>	0.5 seconds Averaging: 5, 10, 15 seconds Integration time up to 24 hrs
<b>Functionality</b>	Rate, histogram, timed count, count to time, time remaining to dose, alpha beta discrimination (depending on probe)
<b>High Voltage</b>	350 - 1200V selectable in menu (can be locked)
<b>Averaging</b>	'Smart Averaging' provides fluid number change, whilst retaining a response time adjustable between slow, medium and fast

The Radhound can be used with third party detectors, please contact us to check compatibility

## SCINTILLATION PROBES

A number of scintillation probes are available for sensitive contamination measurements of Alpha and Beta/Gamma radiation.

- SS404 Al:** 32 x 2.5 mm low energy gamma scintillation probe
- SS404 Be:** 32 x 2.5 mm very low energy gamma scintillation probe
- SS440 B:** Beta scintillation probe. Area 20 cm<sup>2</sup>
- SS500:** NaI (Tl) 25.4 x 25.4 mm gamma probe
- SS600:** A/B/AB: Alpha, beta, alpha/beta dual phosphor. Area 100 cm<sup>2</sup>
- SS700:** A/B/AB: Alpha, beta, alpha/beta dual phosphor. Area 50 cm<sup>2</sup>

## GEIGER PROBES

- SS300:** Pancake Geiger for alpha, beta and gamma radiation
- SS315:** End window for alpha, beta and gamma radiation
- SS330:** Compensated pancake Geiger for ambient gamma radiation H\*(10)
- SS335:** Compensated end window Geiger for ambient gamma radiation H\*(10)
- SS340:** Side on window Geiger for ambient gamma radiation H\*(10)



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