

# RADIATION ALERT® Ranger EXP

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The Ranger EXP offers maximum performance in a light-weight, rugged solution for using your survey meter in the field. The small, handheld unit offers excellent sensitivity to low levels of alpha, beta, gamma, and x-rays. The digital readout is displayed with a red count light and a beeper sounds with each count detected. Other features include an adjustable timer, selectable alert.



**Free Observer USB Software**

**Free Observer BLE Software For Use  
With The Optional Bluetooth Module**

## Detector

RAP-RS2 Probe - External Halogen-quenched, un-compensated GM tube with thin mica window, 1.4-2.0 mg/cm<sup>2</sup> areal density. Effective diameter of window is 45 mm (1.75 in.).

## Operating Range

mR/hr - .001 to 100      CPM - 0 to 350,000  
 μSv/hr - .01 to 1000      CPS - 0 to 5,000  
 Timed Count - 1 to 9,999K (9,999,000) counts

## Energy Sensitivity

- Detects Alpha down to 2 MeV.
- Detects Beta down to .16 MeV; typical detection efficiency at 1 MeV is approx. 25%.
- Detects Gamma down to 10 KeV through the tube window.
- Smallest detectable level for I125 is .02 μCi at contact.

## Built-In Efficiencies

<sup>35</sup>Sulfur (S35), <sup>90</sup>Strontium (Sr/y90), <sup>137</sup>Cesium (Cs137), <sup>32</sup>Phosphorus (P32), <sup>14</sup>Carbon (C14), <sup>131</sup>Iodine (I131), <sup>60</sup>Cobalt (Co60), and Alpha

## Accuracy

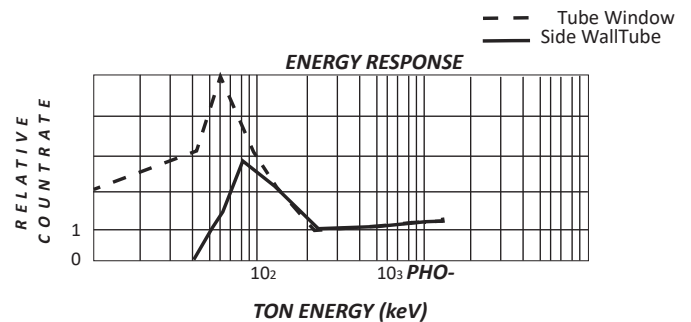
(Referenced to Cs137) Typically ±15% from factory, ±10% with NIST Source Calibration

## Display

Graphic LCD with Backlight

## Alert Set Range

mR/hr .001 - 100 and CPM 1 - 350,000



# RADIATION ALERT®

by S.E. INTERNATIONAL INC.

Reliable Radiation Detection Solutions

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# T<sup>®</sup> RADIATION ALERT *Ranger* EXP

## Count Light

Red LED flashes with each radiation event

## Audio Indicator

Internally mounted beeper. 70db @ 1m. (Can be switched off for silent operation.)

## Size

Base Unit: 140 X 68 X 33 mm (5.5 X 2.7 X 1.3 in.)

Probe: 260 X 70 X 25 mm (10.25 X 2.75 X 1 in)

Cable Length: 3'

## Outputs

USB and Bluetooth 4.1 (Optional) with included Observer Software Family for PC and Android OS.

## Anti-Saturation

Meter will hold at full scale in fields as high as 100 times the maximum reading.

## Power Requirements

Two AA alkaline batteries. Approx. 800 hrs @ background.

## Temperature Range

-10° to +50°C (14° to 122°F)

## Includes

RAP-RS2 External GM Probe, 3ft BNC Cable, Carrying Case, Xtreme Boot, Stand, Batteries, MiniUSB Cable, Observer USB Software Download , Certificate of Conformance

## Options

NIST Calibration

*Bluetooth module available for use with Observer BLE software and CBRN Responder*

## Limited Warranty

1 year limited warranty



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