

# RADIATION ALERT™ Ranger EXP

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The Ranger EXP offers maximum performance in a lightweight, rugged solution for using your survey meter in the field. The Ranger EXP is designed specifically for individuals operating in tough environments. The small, handheld NORM 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, and selectable alert. The free Observer USB Software allows you to set alarms, select preferences, and download your collected data. The Bluetooth and Observer BLE enables saving, sharing, and automation of surveys and RadResponder compatibility.

### Detector

RAP-RS2 Probe - External Halogen-quenched, uncompensated 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 - 1 to 50                      1 - 175,000 CPM  
 μSv/hr - 1 to 500                      0.1 to 3000 CPS  
 Total/Timer - 1 to 9,999,000 counts

### Accuracy

mR/hr ±10% with NIST calibration, ±15% factory  
 μSv/hr ±10% with NIST calibration, ±15% factory

### Energy Sensitivity

- 3340 CPM/mR/hr referenced to Cs<sup>137</sup>
- 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 I<sup>125</sup> is .02 μCi at contact.

efficiency at 1 MeV is approx. 25%.

### Display

Graphic LCD with Backlight

### Alert Set Range

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

### Count Light

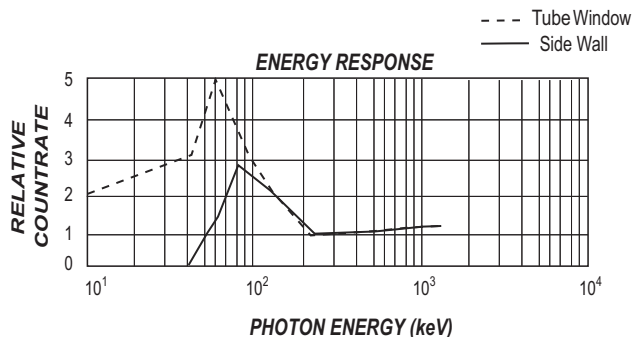
Red LED flashes with each radiation event

### Audio Indicator

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

### 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



# SE INTERNATIONAL, INC.



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# RADIATION ALERT™ *Ranger* EXP

## Size

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)

## Weight

570 g (1.25 lbs.)

## Outputs

USB and Bluetooth 4.1 for use with included Observer Software and Apps. RadResponder Ready.

## Anti-Saturation

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

## Power Requirements

USB or Two (2) AA alkaline batteries.

## Includes

3ft BNC Cable, Carrying Case, Xtreme Boot, Stand, Mini-USB Cable, Observer USB Software Download, Certificate of Conformance

## Temperature Range

-10° to +50°C (14° to 122°F)

## Humidity Range

10% to 70% Non-Condensing

## Limited Warranty

1 year limited warranty



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