

# RADIATION ALERT Ranger EXP



The Ranger EXP offers maximum performance in a lightweight, rugged solution for using your survey meter in the field. The Ranger EXP has been designed specifically for individuals that are operating in harsh environments. The Ranger is a small, handheld instrument that 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 and with the free Observer USB Software Family, you can download your data from the internal memory, set computer alarms and calibrate the instrument.



## Detector

RAP-RS1 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 - .001 (1 $\mu$ R) to 100 CPM - 0 to 350,000  
 $\mu$ Sv/hr - .01 to 1000 CPS - 0 to 5000  
 Total/Timer - 1 to 9,999,000 counts

## Accuracy

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

## Energy Sensitivity

- 3340 CPM/mR/hr referenced to Cs137
- 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 end window.
- Smallest detectable level for I125 is .02  $\mu$ Ci at contact.

## Display

Graphic LCD with Backlight

## Alert Set Range

mR/hr .001 - 100 and CPM 1 - 350,000.  
 70db @ 1m.

## Count Light

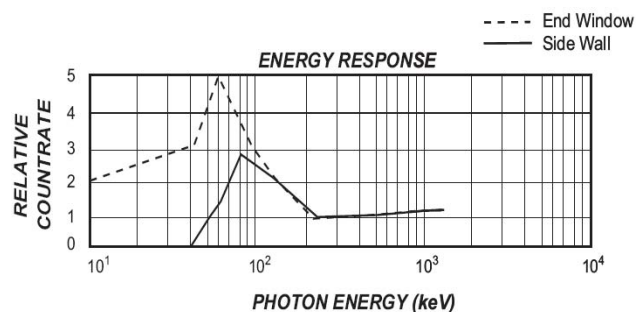
Red LED flashes with each radiation event.

## Audio Indicator

Internally mounted beeper  
 (can be switched off for silent operation)

## Built-In Efficiencies

<sup>5</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



# Ranger EXP

## Size

5.5 X 2.7 X 1.3 in. (140 X 68 X 33 mm)  
 Probe: 10.25 X 2.75 X 1 in (260 X 70 X 25 mm)

## Outputs

USB and Bluetooth 4.1 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.

## Includes

Carrying Case, Xtreme Boot, Stand, Mini Observer USB Software Download, Conformance

## Limited Warranty

1 year limited warranty



	NEW!		NEW!		NEW!	
	Monitor 200	Digilert 200	The Ranger	SEI Inspector USB	The Ranger EXP	SEI Inspector EXP
a B y x	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Alert	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Internal Memory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Free Observer USB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GM Detector	Internal	Internal	Internal	Internal	External	External
Included Protective Boot	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
mR/hr	.001(1µR) to 200	.001(1µR) to 200			.001(1µR) to 100	
µSv/hr	-.01 to 2000	-.01 to 2000			.01 to 1000	
mSv/hr	n/a	n/a			n/a	
Counts Per Minute	0 to 214,000	0 to 214,000			0 to 350,000	
Counts per Second	0 to 3575	0 to 3575			0 to 5000	

