

# Inspector<sup>usb</sup> Handheld Radiation Alert<sup>®</sup> Detector



The Inspector and Inspector Plus are now The Inspector USB!! Now with USB and the free Observer USB Software, you can download your data from the internal memory, set computer alarms, and calibrate your instrument! The Inspector USB Handheld Digital Radiation Alert<sup>®</sup> Detector is a small, microprocessor based survey meter which offers excellent sensitivity to low levels of alpha, beta, gamma, x-rays, and built in efficiencies for common isotopes to calculate activity in Bq and DPM.

## Detector

Internal 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 (1.77 in.). Radiation symbol on front label marks the center of the detector.

## Averaging Periods

Display will update every 3 seconds. At low background levels, the update is the moving average for the past 30-second time period. The timed period for the moving average decreases as the radiation level increases.

## Operating Range

mR/hr - .001 (1μR) to 100      CPM - 0 to 350,000  
 μSv/hr - .01 to 1000          CPS - 0 to 5000  
 Total/Timer - 1 to 9,999,000 counts

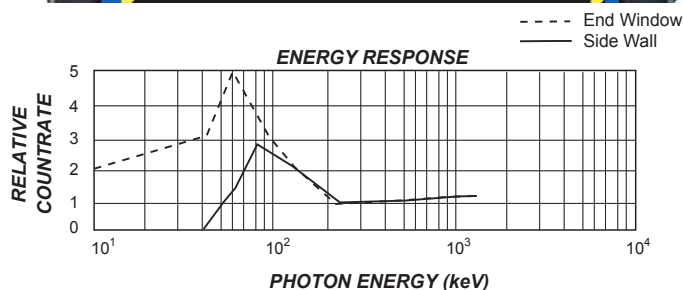
## Accuracy (Cs<sup>137</sup>)

mR/hr ±10% typical (NIST), ±15% max - 0 to 100  
 μSv/hr ±10% typical (NIST), ±15% max - 01 - 1000  
 CPM ±10% typical (NIST), ±15% max - 0 to 350,000

## 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 end window. 3340 CPM/mR/hr (Cs<sup>137</sup>).

Smallest detectable level for I<sup>125</sup> is .02 μCi at contact.



# SE INTERNATIONAL INC



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# RADIATION<sup>®</sup> A • L • E • R • T

# Inspector USB

HANDHELD RADIATION ALERT® DETECTOR

## Display

Backlit 4 digit liquid crystal display with indicators.  
Display updates every 3 seconds.

## Alert Set Range

mR/hr .001 - 50 and CPM 1 - 160,000. 70db @ 1m.

## Count Light

Red LED flashes with each radiation event.

## Audio Indicator

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

## Outputs

Dual miniature jack drives CMOS or TTL devices and counts to computer or datalogger.

USB for use with Observer USB Software for PCs

## Anti-Saturation

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

## 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

## Power Requirements

One 9-volt alkaline battery. Battery life is approx.  
2000 hours at normal background.

## Temperature Range

-10°C to 50°C (14°F to 122°F)

## Weight

Inspector: 273 g (9.6 oz.) without battery.

## Size

150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.).

## Includes

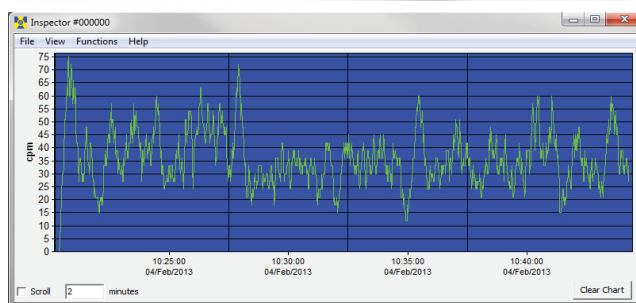
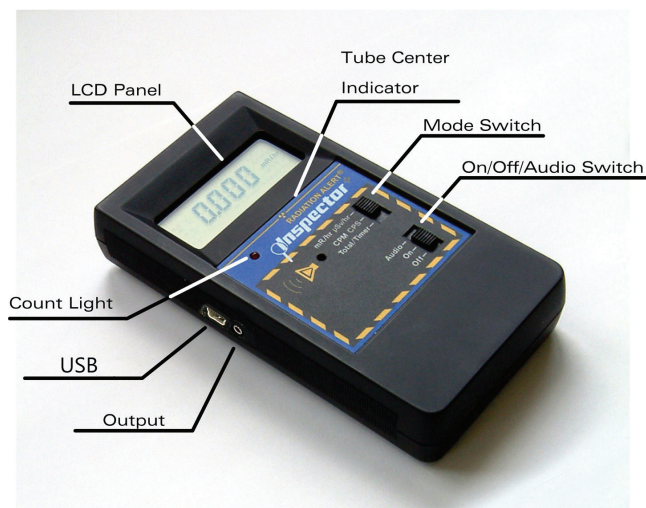
Carrying Case, Certification of Conformance,  
Observer USB Software

## Options

Xtreme Boot, Wipe Test Plate, & Stand

## Limited Warranty

1 year limited warranty  
90 day limited warranty on GM Tube



USB Observer Software collects data stored in the internal memory of The InspectorUSB



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