

Inspector^{USB} Xtreme

Handheld Radiation Alert[®] Detector



The Inspector Xtreme offers maximum performance in a lightweight, rugged solution for using your survey meter in the field. The Inspector Xtreme is designed specifically for individuals operating in tough environments, such as 1st Responders, miners, and HAZMAT crews. The unit is a small, handheld, microprocessor-based instrument which 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, external calibration controls, and selectable alert. 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!



Detector

Internal Halogen-quenched, uncompensated GM tube with thin mica window, 1.4-2.0 mg/cm² 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 (1 μ R) to 100 CPM - 0 to 350,000
 μ Sv/hr - .01 to 1000 CPS - 0 to 5000
Total/ Timer - 1 to 9,999,000 counts

Accuracy (Cs¹³⁷)

mR/hr \pm 10% typical (NIST), \pm 15% max - 0 to 100
 μ Sv/hr \pm 10% typical (NIST), \pm 15% max - 01 - 1000
CPM \pm 10% typical (NIST), \pm 15% max - 0 to 350,000
(Referenced to Cs-137)

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 (Cs¹³⁷). Smallest detectable level for I¹²⁵ is .02 μ Ci at contact.

Built-In Efficiencies

⁵Sulfur (S35), ⁹⁰Strontium (Sr/y90), ¹³⁷Cesium (Cs137),
³²Phosphorus (P32), ¹⁴Carbon (C14), ¹³¹Iodine (I131),
⁶⁰Cobalt (Co60), and Alpha

Alert Set Range

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

SE INTERNATIONAL INC



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RADIATION[®]

A • L • E • R • T

Inspector^{USB} Xtreme

Handheld Radiation Alert[®] Detector

Display

4 digit liquid crystal display with indicators.

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.

Power Requirements

One 9-volt alkaline battery. Battery life is approx. 2160 hours at normal background.

Temperature Range

-10° to 50°C (14° to 122°F)

Weight

Inspector: 275 grams (9.7 oz.) without battery.

Size

178 x 95 x 41 mm (7 x 3.8 x 1.6 in.)

Includes

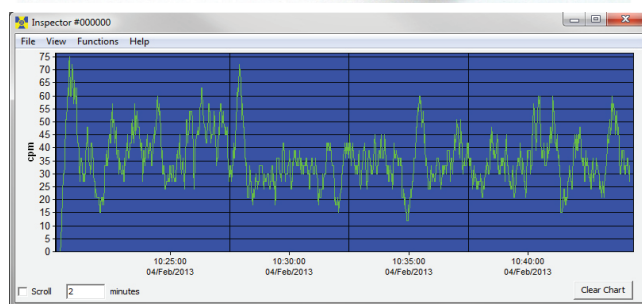
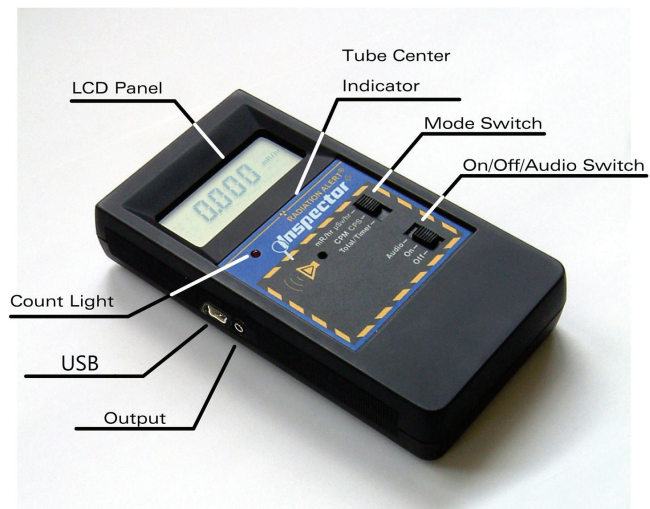
Carrying Case, Certification of Conformance, Observer USB Software

Options

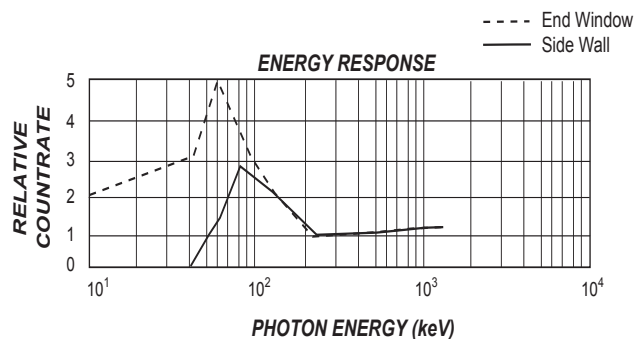
Wipe Test Plate & Stand

Limited Warranty

1 year limited, 90 day limited warranty on GM Tube



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



The Xtreme Boot can be easily removed to use The Inspector with the Wipe Test Plate



The Xtreme Boot option provides easy access to the buttons.

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