

Inspector

Handheld Radiation Alert® Detector

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The Inspector 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 adjustable alert.

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 (1.75 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

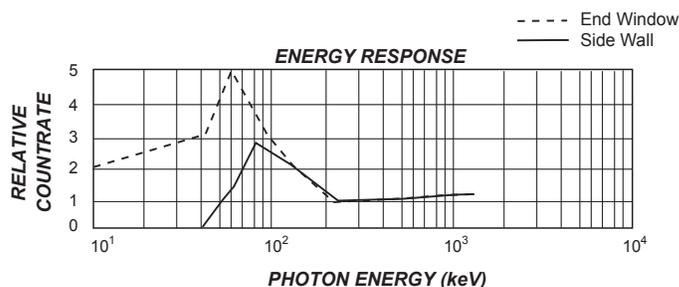
mR/hr - .001 (1μR) to 100 CPM - 0 to 350,000
 μSv/hr - .01 to 1000 CPS - 0 to 5000
 Total/Timer - 1 to 9,999,000 counts

Accuracy (Cs¹³⁷)

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



SE INTERNATIONAL, INC



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RADIATION[®]

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Inspector

Handheld Radiation Alert® Detector

Display

4 digit liquid crystal display with indicators.

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:
count to computer or datalogger.

Submini jack input allows for electronic calibration

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: 273 g (9.6 oz.) without battery.

Size

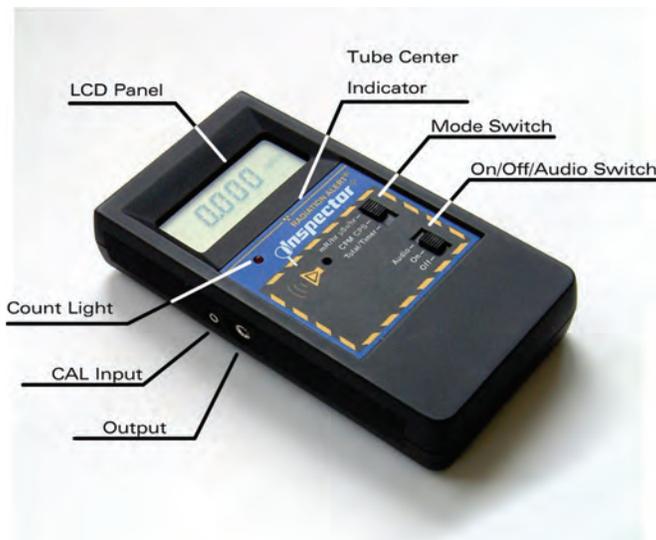
150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.).

Includes

Carrying Case, CE Certification

Limited Warranty

1 year limited, 90 day Warranty on GM Detector



The open endpanel of the optional Xtreme Boot provides easy access to the buttons and switches.

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