

# 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/cm<sup>2</sup> 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

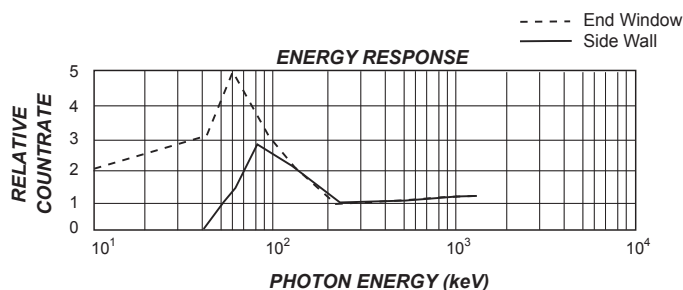
mR/hr - .001 (1μR) to 100      CPM - 0 to 350,000  
 μSv/hr - .01 to 1000          CPS - 0 to 5000  
 Total/Timer - 1 to 9,999,000 counts

## Accuracy (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.



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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

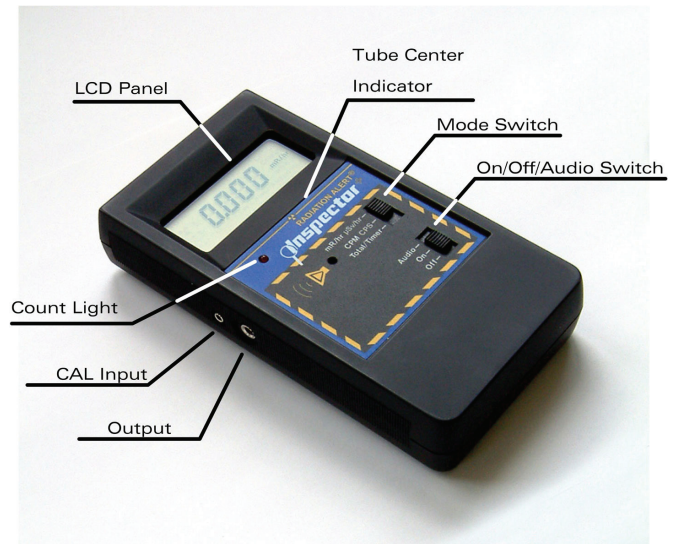
150 x 80 x 30 mm (5.9 x 3.1 x 1.2 in.).

### Includes

Carrying Case, CE Certification

### Limited Warranty

1 year limited, 90 day Warranty on GM Detector



Wipe Test Plate Available



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



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