

# Inspector EXP

## Handheld Radiation Alert® Detector

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The Inspector EXP was designed to meet the requirements of emergency response personnel. It has the same valuable features, small size, and quality of the Inspector. However, instead of the built-in detector, it has the added versatility of an external probe. The carrying case has a clear window panel providing full view of the readout, count light, access to the switches, and a convenient belt loop for carrying the instrument. A small pocket is provided for a check source. The protective probe cover on the uniquely designed carrying case folds easily out of the way to allow one-handed operation if desired.

### Detector

RAP-RS! 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.). Radiation symbol on front label marks the center of the detector.

### Operating Range

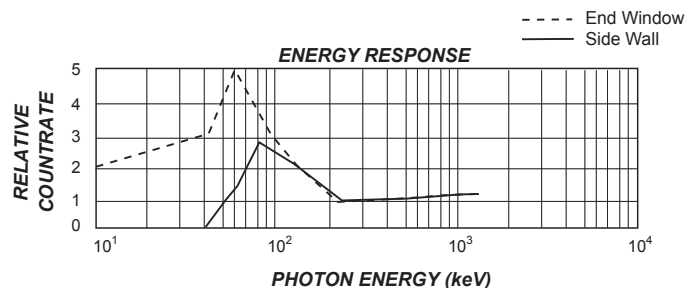
mR/hr - .001 (1μR) to 100      CPM - 0 to 350,000  
 μSv/hr - .01 to 1000          CPS - 0 to 5000  
 Total/Timer - 1 to 9,999,000 counts

### 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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**RADIATION  
 ALERT**

# Inspector EXP<sup>®</sup>

## Handheld Radiation Alert<sup>®</sup> 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.).

### Size

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

Probe: 260 X 70 X 38 mm (10.25 X 2.75 X 1.5 in)

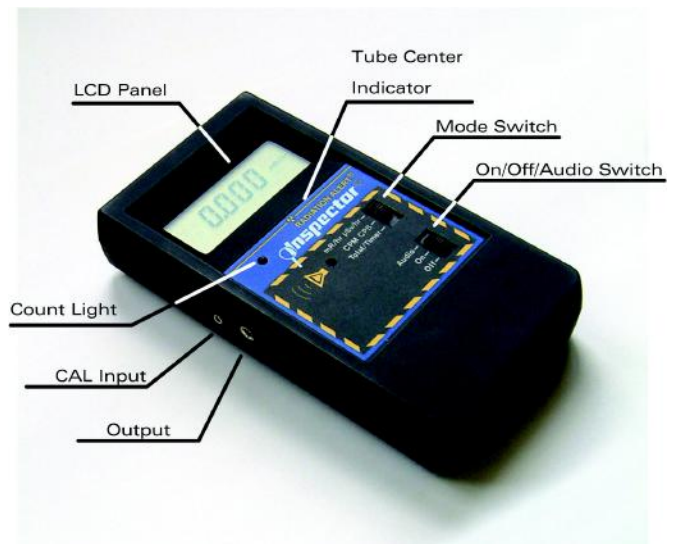
### Includes

Carrying Case, CE Certification

### Limited Warranty

1 year limited warranty,

90 day limited warranty on GM Tube



### 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



Carrying case enables one handed operation of The Inspector EXP



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