

## Inspector Xtreme Handheld Digital Radiation Alert<sup>®</sup> 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.



**INSP-EXP-X** Inspector XTREME includes Xtreme Boot and Carrying Case

### Specifications

**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.

**Display:** 4 digit liquid crystal display with indicators.

**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.

**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  $\mu$ Ci at contact.

**Operating Range:** mR/hr - .001 (1 $\mu$ R) to 100 CPM - 0 to 350,000  $\mu$ Sv/hr - .01 to 1000 CPS - 0 to 5000; Total/ Timer - 1 to 9,999,000 counts

**Accuracy:** mR/hr  $\pm$ 10% typical (NIST),  $\pm$ 15% max - 0 to 100;  $\mu$ Sv/hr  $\pm$ 10% typical (NIST),  $\pm$ 15% max - 01 - 1000; CPM  $\pm$ 15% max - 0 to 350,000 (Referenced to Cs-137)

**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 $^{\circ}$  to 50 $^{\circ}$ C (14 $^{\circ}$  to 122 $^{\circ}$ 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.)

**Utility Menu:** The Utility Menu offers several options accessible by holding down the + button while turning the instrument on. 3 second (fast response)

CE Certification