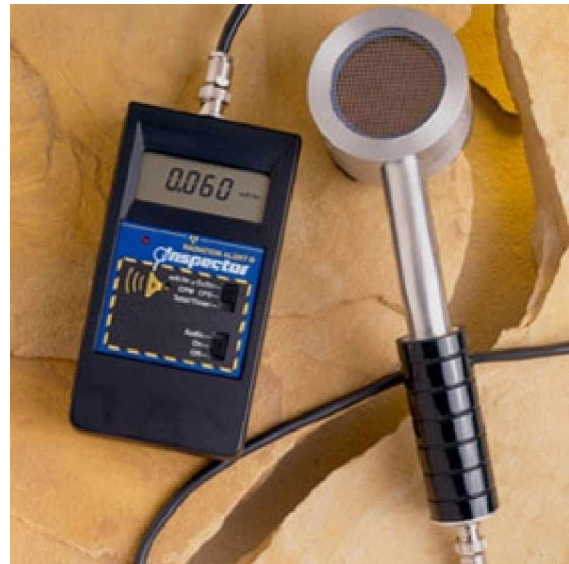


## Inspector EXP

Geiger detector for measurement of alpha, beta and gamma and X-rays

### Main features:

- external G-M probe
- count rate and dose rate mode
- 3 –second reading update
- timer
- audible chirp signal
- lightweight
- simple operation
- $\mu\text{Sv/hr}$  or  $\text{mR/hr}$  options



The Inspector EXP is designed to meet the requirements of medical, emergency response and law enforcement personnel. It has the same features, small size, and quality of the Inspector and PalmRad907, but instead of the built-in detector, it has the added versatility of an external probe with greater sensitivity to surface contamination. The carrying case has a clear window panel that provides a full view of the readout and count light and access to the switches. It includes convenient hand straps and a belt loop for carrying the instrument and a small pocket for a check source. The probe can be attached to the carrying case for one-handed operation if desired. The protective probe cover folds easily out of the way during one-handed operation.

Specifications:	
Sensor	Halogen-quenched Geiger-Mueller tube, effective diameter 70 mm. Anodized aluminum housing with coated, black foam grip. Mica window density 1.5-2.0 $\text{mg/cm}^2$
Display	4-digit liquid crystal display with mode indicators
Operating range	0.01-1000 $\mu\text{Sv/hr}$ (Cs-137); cpm: 0-5000
Averaging Periods	Display updates every 3 seconds, showing the average for the past 30-second time period at normal levels. The averaging period decreases as the radiation level increases. User can select fast 3-second averaging period
Calibration	Cesium 137 (662 keV gamma)

Sensitivity	350 cpm/ $\mu$ Sv/hr referenced to Cs-137
Accuracy	$\pm 10\%$ typical; $\pm 15\%$ max
Efficiency	Sr-90 (546KeV, 2.3MeV $\beta$ max): approx. 75%; C-14 (156KeV $\beta$ max): approx. 11%; Bi-210 (1.2 MeV $\beta$ max): approx. 64%; Am-241 (5.5 MeV $\alpha$ ): approx. 36%
Count light	Red LED flashes with each count
Audible signal	Chirps for each count (can be muted)
Timer	Can set 1-10 minute sampling periods in 1-minute increments, 10-50 minute sampling periods in 10-minute increments, and 1-24 hour sampling periods in 1-hour increments
Outputs	Dual miniature jack drives CMOS or TTL devices, sending counts to computer or data logger. Submini jack allows for electronic calibration.
Power	One 9-volt alkaline battery, battery life is minimum 200 hours at normal background
Anti-Saturation	Readout holds at full scale in fields up to 100 times the maximum reading
Dimensions	150 x 80 x 30 mm
Weight	350 grams