

# Model Inspector Alert™ V2

Radiographic Survey Meters

model  
INSPECTOR Alert™



## Features:

- Display- 4 digit liquid crystal display with mode indicators
- Quickly alerts user to the presence of harmful levels of nuclear radiation
- Detects noble gases and low energy radionuclides
- Automatically compensates for GM tube dead time
- Will not jam in high radiation fields
- Meets CE Certification, RoHS compliant and WEEE standards
- Size: 150 x 80 x 30 mm (5.9" x 3.2" x 1.2")  
Weight: 323 grams (11.4 oz) w/battery



The IMI Inspector Alert™ V2 measures alpha, beta, gamma and x-radiation using a 2-inch "pancake" GM detector with high sensitivity to common beta and alpha sources. The easy-to-read digital display shows readings in your choice of  $\mu\text{Sv/hr}$ ,  $\text{mR/hr}$ , CPM, or CPS. The Total/Timer feature allows timed readings from one minute to 40 hours for precise measurement of low level contamination. An audible alert sounds when the radiation reaches a user-adjustable level.

Sensor: Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0  $\text{mg/cm}^2$

Accuracy:  $\pm 10\%$  typical;  $\pm 15\%$  maximum

Alert:  $\mu\text{Sv/hr}$ : 0 to 500;  $\text{mR/hr}$ : 0 to 50; CPM: 0 to 160,000; Beeper sounds the alert

Anti-Saturation: Readout holds at full scale in fields up to 100 times the maximum reading

Audio: Beeper chirps with each radiation event (can be muted)

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.

Count Light: Red LED flashes with each count

Detector: Halogen-quenched Geiger-Mueller tube. Effective diameter 1.75" (45 mm). Mica window density 1.5-2.0  $\text{mg/cm}^2$  Detects Alpha, Beta, Gamma, and X-radiation

Efficiency: For 4 pi at contact

Beta C-14 (49 keV avg. 156 keV max.): 5.3% Bi-210 (390 keV avg. 1.2 MeV max.): 32% Sr-90 (546 keV and 2.3 MeV): 38% P-32 (693 keV avg. 1.7 MeV max.): 33%; Alpha Am-241 (5.5 MeV): 18%; Gamma Sensitivity: 3500 CPM/ $\text{mR/hr}$  referenced to Cs-137 Smallest detectable level for I-125 is .02 mCi at contact

Manual: IMI Inspector Alert™ V2 Surface Contamination Meter

Operating Range:  $\mu\text{Sv/hr}$ : .01 to 1,100  $\text{mR/hr}$ : .001 to 110 CPM: 0 to 350,000 CPS: 0 to 5,000 Total: 1 to 9,999,000 counts

Ports: Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, earphones, and educational data collection systems. 0-9 V, 1 kOhm impedance. Input: 2.5 mm mono jack provides calibration input. 0-3.3 V, > 5  $\mu\text{s}$  width, rising edge triggered.

Power: One 9-volt alkaline battery; battery life is average 2,000 hours typical, 700 hours minimum at normal background radiation levels at sea level. Battery life decreases as radiation level rises.