International Medcom, Inc

World-Class Radiation Detectors

Alpha • Beta • Gamma • X Radiation

For a Safer World

IMI Inspector Alert™ V2
Radiation Survey & Contamination Meter

First Responders express appreciation for the Inspector's front panel slide switches, which can be operated while wearing safety gloves.



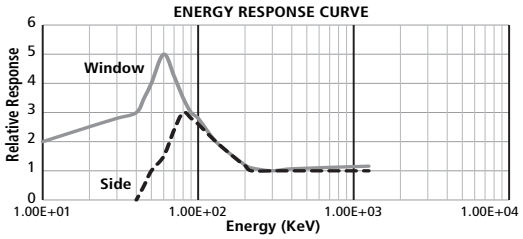
The IMI Inspector Alert™ V2 measures alpha, beta, gamma, and X-radiation using a 2-inch "pancake" GM detector with high sensitivity to common beta and alpha sources. The easy-to-read digital display shows readings in your choice of Dose Rate (µSv/hr or mR/hr) and Count Rate (CPM or CPS). The Total / 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.

- 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

The Inspector Alert's Intuitive and Simplified User Interface requires minimal training.

Technical Specifications

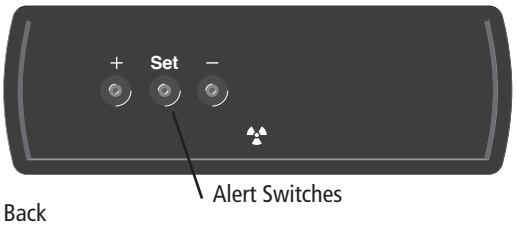
Detector:	Halogen-quenched Geiger-Mueller tube Effective diameter 1.75" (45 mm) Mica window density 1.5–2.0 mg/cm^2 Detects Alpha, Beta, Gamma, and X-radiation
Display:	4-digit liquid crystal display with mode indicators
Operating Range:	µSv/hr: .000 to 1,100 mR/hr: .000 to 110 CPM: 0 to 350,000 CPS: 0 to 6,500 Total: 0 to 9,999,000 counts
Calibration:	Cesium-137 (gamma)
Gamma Sensitivity:	3,340 CPM/mR/hr referenced to Cs-137 Smallest detectable level for I-125 is .02 mCi at contact
Typical Efficiency:	For 4 pi at contact:
Isotope / **Energy** / **Efficiency**	
C-14 (Beta) / 49 keV avg. 156 keV max. / 5.3%	
Bi-210 (Beta) / 390 keV avg. 1.2 MeV max. / 32%	
Sr-90 (Beta) / 546 keV and 2.3 MeV / 38%	
P-32 (Beta) / 693 keV avg. 1.7 MeV max. / 33%	
Am-241 (Alpha) / 5.5 MeV / 18%	
Accuracy:	±10% typical; ±15% maximum
Alert Range:	µSv/hr: .001 to 500 mR/hr: .001 to 50 CPM: 1 to 165,000 CPS: 1 to 2,700 Beeper sounds the alert
Timer:	Can set sampling periods of 1 minute to 40 hours
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
Audio:	Beeper chirps for each count (can be muted)
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 µs width, rising edge triggered.
Anti-Saturation:	Readout holds at full scale in fields up to 100X the max.reading
Temperature Range:	-20° to +50° C , -4° to +122° F
Power:	**One AA alkaline battery typically provides 2,000 to 4,000 hours battery life at normal background radiation levels.**
Size:	150 x 80 x 30 mm (5.9" x 3.2" x 1.2")
Weight:	323 grams (11.4 oz) including battery
Certifications:	CE Certified; Emissions: EN 55011:2009 +A1:2010 (Class B emissions limits); EN 61326-1:2006 (Class B) RF Emissions; Immunity: EN 61326-1:2006 (Annex C) Portable Test and Measurement Equipment; EN 61000-4-2:1995 (ESD); EN 61000-4-3:1997 (EM); RoHS Compliant; Meets WEEE standards
Optional Accessories:	Computer Software and Cable; Red Protect® Boot; Wall Mount Holder; GeigerLink™ Kit; Wipe Test Plate



LCD Display



End Panel



Back



Mica Window Sensitivity

Alpha - Down to 2.5 MeV; typical efficiency at 3.6 MeV is greater than 80%.
Beta - typical efficiency at 50 keV isl 35%
Beta - typical efficiency at 150 keV is 75%.
Gamma and x-rays as low as 10 keV (typical)

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