



Technology for a Healthy Planet

imi

Radiation Detection Instruments since 1986

IMI Inspector Alert™ V2 Surface Contaminatin Meter



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 reading in your choice of Dose Rate - $\mu\text{Sv/hr}$ 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

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:	<p>μSv/hr: .01-1,100 mR/hr: .001-110 CPM: 0-350,000 CPS: 0-5,000 Total: 1-9,999,000 counts</p>	<p>The graph shows a solid line for the 'Window' peak and a dashed line for the 'Side' peak. The x-axis is Energy (KeV) on a logarithmic scale from 1.00E+01 to 1.00E+04. The y-axis is Relative Response from 0 to 6. The window peak is at approximately 50 KeV with a response of 5. The side peak is at approximately 100 KeV with a response of 3.</p>	
Calibration:	Cesium-137 (gamma)		
Gamma Sensitivity:	3500 CPM/mR/hr referenced to Cs-137 Smallest detectable level for I-125 is .02 mCi at contact		
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:	<p>μSv/hr: 0 to 500 mR/hr: 0 to 50 CPM: 0 to 160,000 Beeper sounds the alert</p>	<p>The top panel shows three buttons: '+', 'SET', and '-'. The main unit features a large circular display with a grid pattern. To the right of the display are 'Cal Input' and 'Audio/Data' ports. Below the display is a label with 'CAUTION: High voltage inside - Do not open. Do not allow any object or liquid to pass through screen.' and a 'Symbol on front indicates center of GM tube'. The label also includes CE, RoHS, and RoHS logos, and fields for 'Model' and 'Serial Number' (20135). The IMI logo and 'International Medcom, Inc.' are at the bottom.</p>	
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:	<ul style="list-style-type: none"> Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, earphones, and educational data collection systems. 0-9V, 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 100 times the maximum reading		
Temperature Range:	-20° to +50° C, -4° to +122° F		
Power:	One 9-volt alkaline battery; battery life 2000 hours typical, 700 hours minimum at normal background radiation levels at sea level Battery life decreases as radiation level rises		
Size:	150 x 80 x 30 mm (5.9" x 3.2" x 1.2")		
Weight:	323 grams (11.4 oz) including battery		
Options:	Computer software and cable available		
Certifications:	<p>CE Certified: Emissions: EN 55011:98 + A2 (Class B emissions limits); EN 61326: 06 (Class B) RF Emissions Immunity: EN 61326: 06 (Annex C) Portable Test and Measurement Equipment; EN 61000-4-2: 95 (ESD); EN 61000-4-3: 97 RoHS Compliant; Meets WEEE standards</p>		

*Specifications subject to change without notice.

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