The MedSpec portable Fast Responding Gamma Spectrometer and Dose Rate Meter will instantly measure any material for the \textit{presence of radioactivity} whether it is General Waste, Medical Waste, or Scrap Metal.

Operation of the MedSpec is completely automatic once the easy-to-set operational parameters have been decided upon. Simply position the unit in \textit{close} proximity to the object that \textit{needs} to be scanned and listen for the varying audio alarm to sound and/or the displayed readings to increase. The MedSpec scans suspect material and quickly analyses to determine if and what nuclide is present then categorizes the result as Medical, Industrial, or Natural Occurring Radioactive Material (NORM).

The selectable display readout will show the desired units of measure such as Counts per Second (CPS), Dose-Rate (Sv/h), Exposure Rate (R/h), or Accumulated Dose (Sv).

The MedSpec stores all results in a record which can be downloaded via USB into RadCom’s software for archiving of information and be accessed for further data analysis. Reports can be saved as PDF’s and emailed via user’s PC. Remote servicing/diagnostics and software updates of the MedSpec can be achieved by utilizing the RadComm software.

MedSpec was designed specifically for the Waste and Medical industries to quickly and effectively establish if isotopes are medical isotopes or not. This feature allows users to determine what the next steps are according to the company’s ISO/SOP standards and/or State/Provincial requirements. This can significantly save Time & Money by eliminating the need to quarantine trucks/equipment and allow them to remain productive on the road.
MedSpec Portable Radiation Detector Specifications

**Mechanical**
- Rugged Case 11.04L x 6.1W x 3.3H cm (4.35” L x 2.4” W x 1.3” H)
- Display Window 3.96L x 4.6W cm (1.56” L x 1.81” W)
- Five Push Button Actuation
- Mini USB Connector for Internal Battery Charging
- Thru-hole Arrangement for Maximum Radiation Energy Penetration
- Thru-hole for Audio Alarm
- Weight 200g (0.44lbs)

**Electronics**
- Micro-Controller Based Architecture
- 3.96L x 4.6W cm (1.56” L x 1.81” W) LCD with Backlight
- Backlight Auto-Off (180 seconds) with Push Button Auto-On
- CsI(Na) Crystal: 13mm X 38mm (0.5” X 1.5”)
- Audio Alarm with Vibration
- Stable Low Noise H.V. Power Supply
- Internal Rechargeable Li Ion Battery with Charging LED indicator
- Battery Life: 6 hours continuous with Backlight
- Battery Recharge Time: 4.5 hours based on 2400mAh Battery

**Software**
- Menu Driven User Interface
- Menu Feature Selection Controlled by a Five Push Button Actuation
- Selectable Features: Date and Time, Units of Measure, Readings Update, Language
- PC Configurable
- Up to 6 Digit Auto-Scaling Displayed Radiation Level
- Selectable Displayed Units - CPS, R/hr, Sv/hr
- Base Sampling Rate is 200 mSec, Screen Updates Every 1/Second (CPS)
- Battery Level Indicator: Three Bars for Full Battery, Low Battery Warning Message with the battery bar flashing, 10% Battery Capacity Remaining Audio Beep Every One Minute, System will Turn Off at 5% Battery Capacity
- Warning Messages: Move Closer, Move Away, CPS Exceeds Threshold, Stabilization Off. No ID, Stabilization Required, Memory is Full, Scanning

**Response/Sensitivity**
- Energy Range: 20 KeV – 3.0 MeV
- Dose Rate Range: 0.01µSv/hr up to 10.0 mSv/hr
- Gamma Sensitivity: Cs\(^{137}\) 1,300 (cps/mR/hr)
- Fast Scanning Response: 30.0 nSv/hr (3.0 µR/hr) Change Over Ambient Background.
- Resolution: 8% or better at 662 KeV
- Operating Temperature Range: -10 °C to +45 °C (14°F to +113°F)
- Accumulated Dose: 10 Sv (resettable)
- Radiation Warning Level: 10.0 µSv/hr (1.14 mR/hr)