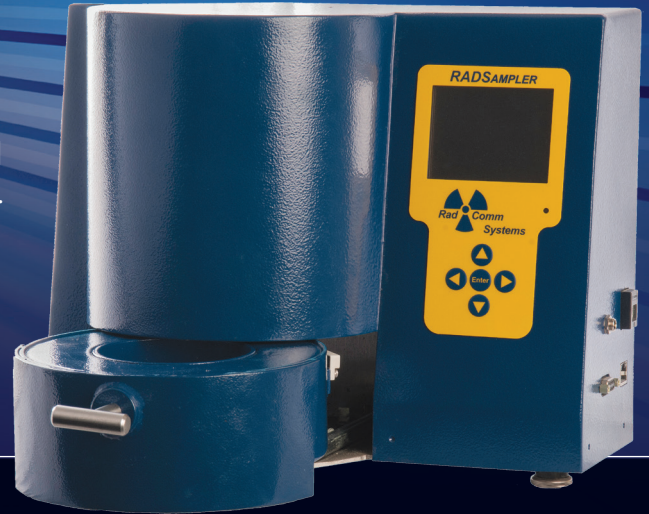


## The RADSampler is a compact yet highly sensitive laboratory gamma spectrometer

Developed as a desktop unit the RADSampler quickly and accurately analyzes any small object to ensure it is free of radioactive contaminants. The RADSampler's lead lined analyzer chamber virtually eliminates ambient background radiation producing ultra-clean, highly accurate test results.

- Compact footprint for desktop application
- Configurable scanning or dwell times
- Available in Basic and Advanced versions
- Easy to operate 5 button keypad
- Remote service and calibration capability



# RADSAMPLER

## LABORATORY GAMMA SPECTROMETER

### Easily configurable to isolate results

RADSampler Basic version allows a user to isolate up to four (4) Regions Of Interest (ROI) of the energy range spectrum and set specific alarm thresholds. This isolation allows for quicker results to detect the four most common isotopes found in the metal manufacturing industries.

RADSampler Advance takes the user to the next level of detection and identification capability. With a large Isotope Library it can accurately identify specific and multiple isotopes within any given sample. RADSampler Advance is suitable for any industry that is concerned about potential contaminated product and/or incoming material that requires testing.

### Simplified Easy to understand results

The RADSampler utilizes powerful Windows based software which allows for uploading of stored spectra results to any PC via USB. The energy results from the ROI windows are automatically summarized in a user friendly report in which the operator can enter information, save, print and/or email the report. Further analysis can be performed by opening using RadComm's PC Analysis software to view a specific ROI in a detailed histogram format.

### Desktop sized laboratory with powerful response

Measuring approximately 8-1/2" (21cms) wide x 12-3/4" (32cms) long and weighing only 86 lbs (39 kg), it easily sits on any desktop or industrial shelf. No longer is it necessary to dedicate valuable floor space to accommodate much larger and heavier spectrometers.

RADSampler's large Thallium doped Sodium Iodide, NaI(Tl), crystal coupled with customer enabled ROI configuration quickly optimizes test results specifically for Am241, Cs137, Ir192, and Co60. RADSampler Advance monitors all ROI's providing users with an even greater range of isotopes and analysis.

## Detector case consists of:

- Detector dimensions:  
9"H (23cm) x 12.69"W (32cm) x 8.5"D (21.6cm)
- Detector case: Painted Aluminum
- Shielding material: Lead
- Detector weight: 86lbs (39kg)
- Maximum sample well size: 3.25" (8.25cm)

## Electronics:

- Integrated PMT with Electromagnetic Shielding
- Audio & Visual alarm
- Stable low noise, high voltage power supply
- USB connector for both power and data transfer
- Internal Lithium Ion battery for backup purposes
- Internal memory storing up to 900 spectra
- 5 button actuated keypad

## Environmental:

- Operating temperature: -20°C (-4°F) to +60°C (+140°F)

## Display:

- Backlit RGB colour LCD 320x240 resolution
- Viewing area: 3.5" (8.9cm) TFT LCD

## Software:

- Menu driven user interface
- Windows based PC software for Data Management
- Remote service and calibration capability
- RadView software for integration

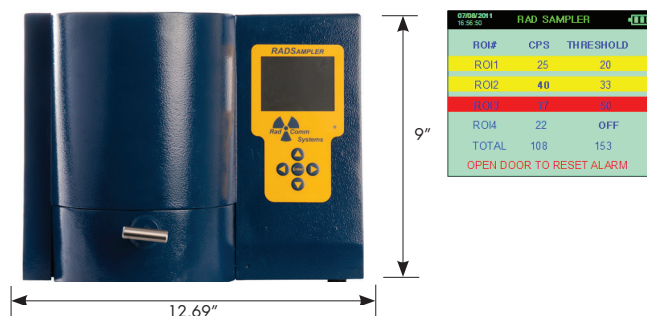
## Response and Sensitivity:

- Energy range: 30 KeV to 3.0 MeV (Gamma)
- RADSampler Basic optimized for  
Am<sup>241</sup>, Cs<sup>137</sup>, Ir<sup>192</sup>, and Co<sup>60</sup>
- Gamma spectrum: 1024 channel.
- Detection material:  
Thallium doped Sodium Iodide crystal, NaI(Tl)
- Crystal size: 1.5" (38mm) x 2" (51mm)
- Energy resolution: 8.0% or better for 662 KeV
- Calculates dose rate (RADSampler Advanced only)

RadSampler RS00000 Report			
Item	Details	Notes	
Time	11:14 AM	Time from RadSampler (hh/mm/ss)	
Date	05/03/2013	Date from RadSampler (dd/mm/yyyy)	
Location	Rad Comm	Entered by Operator	
Operator Name	John Smith	Entered by Operator	
Heat ID	ABCD123	Entered by Operator	
Sample ID	123	Entered by Operator	
Acquisition Time	10	In Seconds	
R.O.I. #s	CPS	Threshold	Result
R.O.I. # 1	9	13	Passed
R.O.I. # 2	2	5	Passed
R.O.I. # 3	0	5	Passed
R.O.I. # 4	0	5	Passed
Total Counts	49	63	Passed

Sample Result

Passed



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Innovative Radiation  
Detection Systems**



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