

RADCOMM

RADIATION DETECTION SYSTEMS

Leading Supplier of Innovative
Radiation Detection Systems



Working in association with

HIGGINS BALERS LTD
RENEWING, REPAIRING, REPLACING

www.higginsbalers.com





Steve Jobs once quoted that

“Innovation distinguishes between
a leader and a follower”

and this could not be any more true of
RadComm Systems. Our approach, products
and services have distinguished ourselves
from our competitors and enabled us to
continue to invest in ongoing research and

development to maintain our leadership role in the industry. We pride ourselves
on being the leader in the radiation detection industry and ensuring that
through our innovative vision and execution, we will continue to be the leader
for the future.

With over 50 years' experience in the recycling industry, long before the 3 R's of
Reduce Reuse Recycle became fashionable, our innovative approaches to
providing solutions to customers requirements, makes this true of us too. By
providing a professional, impartial advice, a full range of equipment along with
the service and support to ensure your system runs continuously and smoothly,
no matter what waste you are dealing with we at Higgins Balers Ltd have the
expertise for all your recycling and waste management needs.

HIGGINS BALERS LTD

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Zero in on a potential radioactive source quickly and more effectively with an RC2^{PLUS}.

- Improved sensitivity and great response
- Easy to use
- Larger high definition display with multiple languages
- Lightweight with longer battery life
- Two versions: Basic with Total Count; or Advanced ROI Analysis.



Updated Design with Advanced Features

The Basic RC2^{PLUS} automatically sets an alarm threshold over the total background count rate average, upon each start up. This allows the RC2^{PLUS} to detect very low radiation levels even when hidden by shielding, such as scrap metal, waste, or other dense materials. The RC2^{PLUS} utilises a large internal, high grade PVT scintillator to maximise sensitivity.

The advanced RC2^{PLUS} utilises both a PVT scintillator and a Geiger-Mueller Tube to perform 'Region of Interest' (ROI) Analysis which allows the operator to see the distributed gamma energies in a histogram form. Additional features include Dose Rate Alarm, Data Storage and Graphing.

Upgradable for Increase Flexibility

At any time the RC2^{PLUS} Basic can be easily upgraded to the Advanced version. The RC2^{PLUS} Advanced stores operator results in a histogram record which can be downloaded via USB to RadComm's PC software for further analysis. All reports can be save in PDF format and archived for future reference. Remote servicing/diagnostics and potential future software updates for the RC2^{PLUS} series can be achieved via an internet or network connection with RadComm's software application.

The RC2^{PLUS} Specifications:

Size:

- Detector Dimensions (hxlxw): 7" (18cm) x 8¼" (21cm) x 4" (10cm)
- System weight: 3.4 lbs (1.5 kg)
- Detector Case: Durable plastic with protective silicone sleeve

Electronics:

- Integral PMT with EM Shielding
- Audio and Visual Alarm with Vibration
- Stable Low Noise, High Voltage Power Supply
- Battery: Internal Lithium ion with Charge Indicator
- Battery Life: up to 9 hours
- Battery Recharge Time: wall charger: 2.5 hours; PC USB: 6 hrs (estimated)

Environmental:

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

Display:

- Backlit RGB colour LCD 320x240 resolution
- Viewing area: 2.7" (7cm) x 2.1" (5.3cm)
- Basic: selectable units of measure (CPS, uSv/h; uR/r)
- Advanced: Histogram formed

Software for Advanced:

- Menu Driven User Interface
- Configurable Data Storage with Backup
- Emailing Capability (with network connection)

Response/Sensitivity:

- Energy Range: 30KeV – 2.0 MeV
- Gamma histogram: 256 channels, channel capacity, 16 bits

RC2^{PLUS} vs Advanced

Each RC2^{PLUS} Package Includes:

- RC2^{PLUS} instrument charged and ready for use
- Hard Shell Carrying Case
- Smart Battery Wall Charger
- USB Key with Operation Manual Embedded
- Calibration certificate

RC2^{PLUS} Docking Station (Optional)

- Docking Station Charges RC2^{PLUS} Instrument
- Provides Area Monitoring whilst Docked
- Audio and Visual Alarm with Reset Button
- Wall Mounted with Security Lock

| Feature | Basic | Advanced |
|------------------------------|-------|----------|
| Search & Find | ✓ | ✓ |
| Total Counts | ✓ | ✓ |
| Dose Rate | ✓ | ✓ |
| Does Rate Alarm | | ✓ |
| Histogram | | ✓ |
| Graph Plotting | | ✓ |
| ROI Analysis | | ✓ |
| ROI Alarm Threshold Settings | | ✓ |
| Data Storage | | ✓ |
| Accumulated Dose | | ✓ |

The RC1000 series is an ideal radiation detector for small vehicle and small material handling units.

- Innovative Design, User Friendly, Easy to Install and Operate
- Adjustable alarm Threshold Settings
- Site Specific Calibration
- Auto-Restart after Power Outage

Detection of Radioactivity in Low Density Materials

The RC1000 series of radiation detection systems have been designed for lower density materials such as waste and light/bulky scrap metal. The vehicle size and type will determine the appropriate detector panel size (34L or 69L).

The RC1000 detection systems all utilise Radcomm's high quality specially prepared polyvinyl toluene (PVT) scintillators, whose design has been optimised to allow maximum light output during scintillation events.



Simplified and Efficient

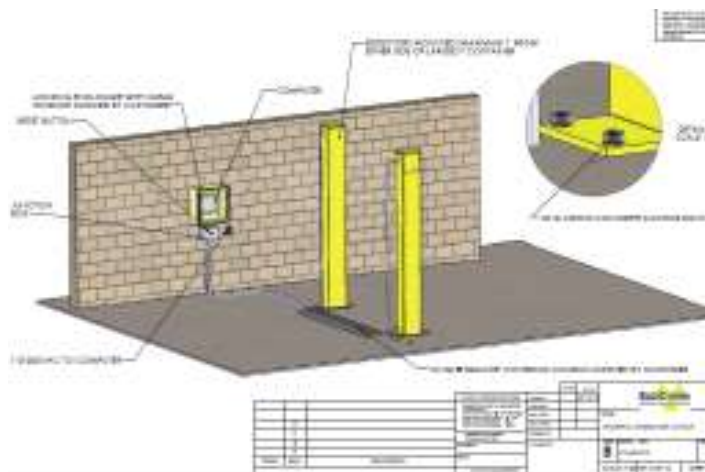
The RC1000 is based on 'Rate-Meter' technology. This technology requires a minimal calibration on system start-up. Once the alarm thresholds are set, the system operation is automated. In the event of detecting an increase in the measured radiation levels, an increasing audio alarm will sound, accompanied by a Red Alarm lamp to alert the operator to the presence of the radioactive material.

Flexible and upgradeable

The RC1000 design is considered an entry level system with manual recording and alarm tracking. This system is full capable of upgrading to the RC2000 and RC4000 which have full automation on the manual tasks, enabling detailed data storage, real time tracking, network capability and manual scanning.

The RC1000 Series consists of:

- Detector assemblies (1-2 panels)
- Power supply control unit
- Controller



Detector features:

- Large Premium Grade
- Detector Case Nema-4 (IP65) Rated
- Low Density Shield on Face of Detector Panel
- Dual Layer of Thermal protection (-20°C to 50°C)
- 95% Humidity Rating (Non-condensing)
- High Signal to Noise Ratio PMT
- High Speed Micro-Controller
- High Speed Pulse Processor
- Noise Reduction Hardware/Software
- Internal Non-radioactive Test Source
- 24v DC Input Voltage @ 1.5A
- Sensitivity: Typ. 0.05 counts/s/cm³/nSv/h⁻¹

RC1000 Controller Consists of:

- 2.5" Touch Sensitive LCD Display
- High Speed Micro-Controller
- Easy to Follow Menus
- Audio and Visual Alarms
- Radiation Levels Displayed in CPS (Counts per second)
- Detailed Easy to Follow Detector and System Configuration Menu
- Internal non-radioactive Test Source
- Touch Key Activated

Energy Ranges: 50KeV to 3.0 MeV (Incident)

| Model | RC1034 | RC1069 |
|---|----------|---------|
| System Size (in ³) | 2108 | 4216 |
| System Size (L) | 34.5 | 69 |
| System Size is based on 2 panels | | |
| PER/Panel Size (in ³) | 1054 | 2108 |
| PER/Panel Size (L) | 17.25 | 34.5 |
| # of PMT's/panel | 1 | 1 |
| Detection Capability | 3.3uCi | 2.3uCi |
| Overall Sensitivity/ Unshielded Source (Shielded Source) | (116mCi) | (82mCi) |
| Radiation measurement of 137Cs (point source) at 1m from the face of the detector (the radiation exposure level is comparable to a 75mmØ x 150mm 137 Cs lead sealed source buried in 20 lbs/ft ³ (0.32 g/cm ³) of scrap metal) | | |

Prevent costly radioactive contamination of your scrap yard, steel plant, equipment, product & personnel with an RC2000!

- Innovative Design, with Multiple Detector Sizes
- User Friendly, East to Install and Operate
- Detailed Data Storage
- Adjustable Alarm Threshold Settings
- Network Capability with Email



Detection of Radioactivity in Moderate Density Materials

The RC2000 series of radiation detection systems have been designed for moderate density materials such as compressed waste and processed scrap metal. The vehicle size and type will determine the detector panel size (69L; 91L; 138 L) and configuration. The RC2000 detection systems all utilise RadComm's high quality specially prepared polyvinyl toluene (PVT) scintillators, electronics and photomultiplier tube (PMT).

Simplified System Operation

The RC2000 provides a high level of detection capability for buried gamma sources in low to moderate material densities. System operation is completely automated providing real time alarm thresholds during each scanning period. It utilises a User Friendly Graphical interface allowing easy navigation through the many user options. Detailed alarms records are stored on the internal hard drive for easy retrieval.

Networkable Remote System Access

The RC2000 Controller is equipped with a network adaptor allowing remote monitoring, data retrieval and maintenance functions. The software and hardware designs are extremely flexible allowing remote software updates and electronic hardware adjustments when necessary.

The RC2000 Series consists of:

- Detector assemblies (1-5 panels)
- Smart infrared presence sensors
- Power supply control unit
- Windows based PC
- Large touch screen monitor
- Remote communications option

Controller Features:

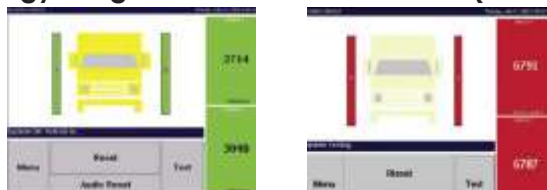
- Large Touch Screen LCD Monitor
- Windows™ based PC with High Speed Processing Unit for Menu and data Management
- Large Storage Capacity for System Operational information and Alarms
- Easy to follow Multilingual Menu Outlines and Descriptions
- Multi-level Security Password Control
- Detailed Alarm Data Storage
- East to Set Alarm Configuration menu
- Radiation levels Displayed in Counts per Second (mR/h, nSv/h)
- Vehicle Speed Measurement in km/h and mph
- Adjustable Audio Alarm
- Counter for Number of Scans in a 24 hour Period and To-date
- Detailed Alarm Information Displayed and Stored After every alarm
- Network Access for Remote Service and Monitoring (optional)

| Model | RC2069 | RC2110 | RC2138 |
|---|---------|---------|---------|
| System Size (in ³) | 4,216 | 5,264 | 8,432 |
| System Size (L) | 69 | 91 | 138 |
| System Size is based on 2 panels: may be extended with additional panels | | | |
| PER/Panel Size (in ³) | 2,108 | 2,632 | 4,216 |
| PER/Panel Size (L) | 34.5 | 45.5 | 69 |
| # of PMT's/panel | 1 | 1 | 1 |
| Detection Capability | 2.3uCi | 2.0uCi | 1.6uCi |
| Overall Sensitivity/ Unshielded Source (Shielded Source) | (82mCi) | (71mCi) | (58mCi) |
| Radiation measurement of 137Cs (point source) at 1m from the face of the detector (the radiation exposure level is comparable to a 75mmØ x 150mm 137 Cs lead sealed source buried in 40 lbs/ft ³ (0.64 g/cm ³) of scrap metal) | | | |

Detector Features:

- Large Premium Grade PVT Scintillators
- 34.5 to 69 L PVT Volumes Available (Single Panel)
- Low Density Shield on Face of Detector Panel
- Dual Layer Thermal Insulation (-20°C - 50°C)
- High Signal to Noise Ratio PMT
- High Speed Micro-controller with Programmable CPLD Technology for Signal/Alarm Analysis
- Single Input High Speed Pulse Processor
- Noise Reduction hardware/Software
- Background Characterisation for Variable Ambient Background Suppression
- Smart Infrared Vehicle Presence: Speed Monitor
- 8 Output Drivers (24V DC @ 50 mA) for Remote Indicators
- Internal Non-radioactive Test Source for Detailed and Repeatable System Checks
- 24V DC Input Voltage @ 1.5A

Energy Ranges: 50KeV to 3.0 MeV (Incident)



Prevent costly radioactive contamination of your scrap yard, steel plant, equipment, product & personnel with an RC4000!

- Innovative Design, with Multiple Detector Sizes
- User Friendly, Easy to Install and Operate
- Energy Specific Alarm and Background Statistical Analyses
- Real Time Density Tracking Algorithm
- Network Capability with Email



Detection of Radioactivity in High Density Materials

The RC4000 series of radiation detection systems have been designed to detect very low gamma emissions in high density materials. The RC4000 is supplied in three detector panel sizes (69L, 91L, 138L) with any configuration with up to 8 detector panels. These systems all utilise RadComm's high quality specially prepared polyvinyl toluene (PVT) scintillators, electronics and Dual Photomultiplier Tubes (PMT's).

Simplified System Operation

The RC4000 utilises real-time statistical algorithms that are based on Gamma Energy Distribution to ensure alarm thresholds levels are optimized. It has a User Friendly Graphical interface allowing easy navigation through the many user options. All detailed Clean Scan, Testing and Alarms records are stored on the internal hard drive and can be easily retrieved and interpreted as required.

Remote System Access

The RC4000 Controller is equipped with a network adaptor allowing remote monitoring, data retrieval and maintenance functions. The software and hardware designs are extremely flexible allowing remote software updates and electronic hardware adjustments when necessary, & emailing of alarms (with network connection)

The RC4000 Series consists of:

- Detector assemblies (1-8 panels)
- Smart infrared presence sensors
- Power supply control unit
- Windows based PC
- Large touch screen monitor
- Remote communications package

Detector Features:

- Large Premium Grade PVT Scintillators
- 34.3 to 69 L PVT Volumes Available (Single Panel)
- Low Density Shield on Face of Detector Panel
- Dual Layer Thermal Insulation (-20°C - 50°C)
- High Signal to Noise Ratio PMT
- High Speed Micro-controller with Programmable CPLD Technology for Signal/Alarm Analysis
- Single Input High Speed Pulse Processor
- Noise Reduction hardware/Software
- Background Characterisation for Variable Ambient Background Suppression
- Smart Infrared Vehicle Presence: Speed Monitor
- 8 Output Drivers (24V DC @ 50 mA) for Remote Indicators
- Internal Non-radioactive Test Source for Detailed and Repeatable System Checks
- 24V DC Input Voltage @ 1.5A
- Adjustable Audio Alarm
- Counter for Number of Scans in a 24 hour Period and To-date
- Detailed Alarm Information Displayed and Stored after every Alarm

| Model | RC4069 | RC4110 | RC4138 |
|---|---------|---------|---------|
| System Size (in ³) | 4,216 | 5,264 | 8,432 |
| System Size (L) | 69 | 91 | 138 |
| System Size is based on 2 panels: may be extended with additional panels | | | |
| PER/Panel Size (in ³) | 2,108 | 2,632 | 4,216 |
| PER/Panel Size (L) | 34.5 | 45.5 | 69 |
| # of PMT's/panel | 1 | 1 | 1 |
| Detection Capability | 1.6uCi | 1.4uCi | 1.1uCi |
| Overall Sensitivity/ Unshielded Source (Shielded Source) | (82mCi) | (71mCi) | (58mCi) |
| Radiation measurement of 137Cs (point source) at 1m from the face of the detector (the radiation exposure level is comparable to a 75mmØ x 150mm 137 Cs lead sealed source buried in 65 lbs/ft ³ of scrap metal) | | | |

Controller Features:

- Large Touch Screen LCD Monitor
- Windows™ based PC with High Speed Processing Unit for Menu and data Management
- Large Storage Capacity for System Operational information and Alarms
- Easy to follow Multilingual Menu Outlines and Descriptions
- Multi-level Security Password Control
- Detailed Alarm Data Storage
- Manual Scanning for Pinpointing Source Location within the Vehicle's Load
- Easy to Set Alarm Configuration menu
- Network access for Remote Service & Monitoring
- Radiation levels Displayed in c/s (mR/h, nSv/h)
- Vehicle Speed Measurement in km/h and mph
- Ambient Temperature Displayed in °C and °F

Energy Ranges: 18KeV to 3.0 MeV (Incident)



Find radioactive sources that other radiation detection systems miss! CRICKET is the world's leading, most rugged, highest sensitive radiation detection grapple mounted system on the market!

- Proven, tested, innovative leading edge technology
- Unparalleled durability
- User friendly, easy to operate
- East to install and maintenance friendly
- Supervisory software capable



Fit to any grapple, in any application

The CRICKET radiation detection system is designed specifically to meet the needs of the scrap, steel and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where detection systems never existed before. The level of detection capability far exceeds any conventional radiation detection system, including those mounted on the boom of a crane, regardless of detector size

Get closer, scan longer, with more accuracy

Mounting the CRICKET in a grapple application allows direct exposure to all the material being handled. There are three different opportunities to analyse all the scrap material during the handling process. Firstly, because the CRICKET system scans on a continuous basis, material is scanned on the surface before the load is even picked up. Secondly, the load is scanned while in the grapple. Finally, the material is scanned just as it is released. These three scanning conditions allow the CRICKET to provide the highest degree of detection capability for low level radioactive material.

The CRICKET Grapple consists of four assemblies:

- The protective shield
- A controller
- The detection unit
- Battery pack

Detector protective shield

- Fits to any type of mechanical, hydraulic, electro-hydraulic grapple
- The shields high strength and wear resistance design is capable of withstanding severe impacts on a continuous basis
- Easy to install and service
- Equipped with doors for easy access to the internal detector assembly(s)
- Detector occupies a small volume of the grapple that does not affect the scrap handling operations

Detection Unit

- The primary component of the detector system
- Size of the detection system is configured to the size of the grapple
- Contains the electronic and detection assemblies which are designed to withstand SEVERE repeated impacts and vibration associated with these applications
- The system electronics include several sensors that are used to monitor the operating conditions of the grapple such as temperature and motion
- The internal assemblies are mounted specifically so that they are isolated from the direct transfer of energy.

Battery pack for Grapples

- The battery pack measures 5.5" x 3.75" x 1.25" (13.97 cm x 9.53 cm x 3.17 cm) and incorporates a rugged steel box housing measuring 9.25" x 6" x 5" (20.96 cm x 15.24 cm x 12.7 cm)
- The box is welded in a protected area on the tube of the grapple centre section
- A small 1/2" (13mm) hole is drilled in the tube to allow communication cable access to the battery pack connections
- Battery pack includes a shock mounted standard 7.4V DC 8.4 A/hr lithium polymer and wireless communication system
- Battery powers the detection unit's electronic circuits and wireless system
- Wireless system utilises a low powered digital non-licensed frequency that can transmit up to 1000ft (300 m) line of sight



Find radioactive sources that other radiation detection systems miss! CRICKET is the world's leading, most rugged, highest sensitive radiation detection magnet mounted system on the market!

- Proven, tested, innovative leading edge technology
- Unparalleled durability
- User friendly, easy to operate
- East to install and maintenance friendly
- Supervisory software capable

Fit to any magnet, in any application

The CRICKET radiation detection system is designed specifically to meet the needs of the scrap, steel, and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of detector size

Get closer, scan longer, with more accuracy

Mounting the CRICKET in a magnet application allows direct exposure to all the material being handled. There are two different opportunities to analyse all the scrap material during the handling process. Firstly, the CRICKET system can scan on a manual basis, material may be scanned on the surface before the load is even picked up. Secondly, once the magnet is energized the load is scanned while in the magnet allowing for the highest level of sensitivity.



The CRICKET Grapple consists of three assemblies:

- The protective shield
- A controller
- The detection unit

Detector protective shield

- Fits to any type of mechanical, hydraulic, electro-hydraulic
- The shields high strength and wear resistance design is capable of withstanding severe impacts on a continuous basis
- Easy to install and service
- Equipped with doors for easy access to the internal detector assembly(s)
- Detector occupies a small volume of the grapple that does not affect the scrap handling operations

CRICKET Control Console

- High speed microprocessor
- Easy to read 8.4" touch screen LCD
- System displays radiation level, temperature, magnetic field ON, detector voltage level
- Manual scanning mode
- Audio and visual alarms
- Alarm data storage
- Wireless transceiver with antenna
- Mounting bracket



Detection Unit

- The primary component of the detector system
- Size of the detection system is configured to the size of the apparatus
- Contains the electronic and detection assemblies which are designed to withstand SEVERE repeated impacts and vibration associated with these applications
- The system electronics include several sensors that are used to monitor the operating conditions of the grapple such as temperature, motion and impact levels
- The internal assemblies are mounted specifically so that they are isolated from the direct transfer of energy.
- Wireless system utilises a low powered digital non-licensed frequency that can transmit up to 1000ft (300m) line of sight



The SYCLONE is a highly sensitive portable Gamma-Ray spectrometer capable of identifying single or multiple isotopes simultaneously. It also provides functions such as Search and Find, Rate Meter, and (accumulated) Dose Rates

- Large Isotope Library
- Lightweight and Battery Operated
- Large Backlit Display and Easy to Follow Menus
- 4 Position Joystick
- Large Integral Memory



Detect and Identify Specific Radioactive isotopes in a Sample

The SYCLONE gamma-ray spectrometer utilises the highest quality thallium doped sodium iodide crystal, combined with an integral high signal to noise ratio PMT, state of the art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable gamma ray spectrometers when it comes to identifying specific and/or multiple isotopes with weak gamma sources.

Simplified and Flexible

The multi-purpose joystick and large LCD backlit display provide easy navigation through menu selections. Detailed spectral information is clearly and precisely displayed and can be downloaded (via Bluetooth, mini USB or RS232) and managed with the powerful SYCLONE PC software. Various on-screen messages assist the user when immediate attention is required for issues such as pre-set timing, high radiation levels alarm settings and warning messages.

The SYCLONE portable Gamma-Ray Spectrometer:

Detector Case consists of:

- Detector Case (hxlxw): 7" (18cm) x 9" (23cm) x 4" (10cm)
- Outer Detector Case: Painted Aluminium making it robust for field and harsh environment application
- System Weight: 4.2 lbs (1.9kg)

Electronics:

- RS232 Serial Output Port
- Mini USB and Bluetooth Capabilities for Data Transfer
- Battery: Alkaline and Rechargeable
- Capacity: 2200 mAh, 4.8V
- Operating Time: 8 hrs (rechargeable), 12 Hour (alkaline)

Environmental:

- Operating Temperature: -20°C (68°F) to +60°C (140°F)
- Relative Humidity: 93% non-condensing at 40°C (104°F)
- Shock: Complies with ANSI N42.34
- EM Compliance: Complies with ANSI 42.34 and CE requirements for Safety RFI and EMI

Software:

- Windows™ Based SYCLONE Application Software
- Easy to use Menu Drive Interface
- Configurable Data Storage with Backup
- Emailing Capability with Network Connection
- Data Storage: 100,000 Dose Rate Samples / 427 Spectra

Spectrometer Specifications:

- Gamma NaI Size: 1.5" (38mm) x 2" (51mm)
- Geiger-Mueller Size: 0.59" (15mm) x 1.9" (49mm)
- Energy Resolution: 7.5% or better for 662 KeV
- Energy Range: 20KeV to 3.0 MeV (gamma)
- Sensitivity Calibration: response is Calibrated for Specific Isotopes
- Accumulate Dose up to 5 Sv, Custom Increase
- Stabilisation: Cs-137 source in <1 min
- Gamma Spectrum: 1024 Channels, channel Capacity 16 bits
- Correction: Non-linear Energy Calibration
- Pre-set Time: Up to 5400 seconds

Spectral Analysis Software:



The RADLAB was developed specifically for the metal industries to provide the highest degree of accuracy in measured samples for their specific radiological content.

- Full scale isotope analysis
- Full scanning times between 1-5 minutes: quick scan feature
- Full network capabilities for system monitoring and servicing
- Large 6" (152mm) diameter WELL to accommodate different sample sizes

Detect and identify specific radioactive isotopes in same sample

The RADLAB spectrometer utilises only highest quality thallium doped sodium iodide crystal, combined with state of the art electronics and software. The result is the ability to distinguish between multiple isotopes and specific gravity levels in the same sample. Results are quickly displayed and a report is generated.

Simplified and Flexible

The RADLAB system uses a Windows™ based environment and the user based interface software utilises a systematic approach to the step by step sequences when stabilising the system, taking measurements and filling in data. There are no complex steps that are required to ensure the system is calibrated and taking measurements correctly. Connecting the RADLAB to the outside world is a TCP/IP connection and a serial port.

All system functions can be accessed remotely via a network connection.



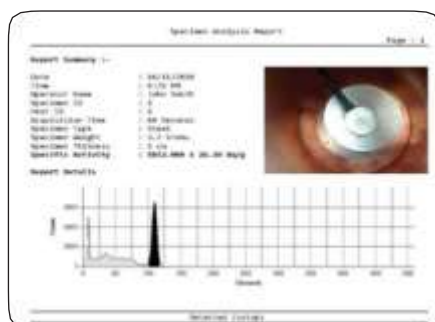
The RADLAB Gamma Spectrometer System Consists of:

Detector Case consists of:

- Detector Case (hxlxw): 24" (60cm) x 24" (60cm) x 16" (40cm)
- Outer Detector Case: Painted Aluminium
- Shielding Material: lead and Copper
- System Weight: 450 lbs (204kg)
- Max Sample Well Size: 6" (15cm) dia x 6" (15cm)

Electronics consist of:

- Detection Material: 21 inches³ (0.235L) sodium Iodide, thallium doped (Na(Tl))
- Integral PMT and EM Shielding
- High Speed DSP Circuitry with High SNT Software Adjustable
- Controller with CPLD Technology
- Internal Memory: RAM 1MB
- Hard Drive: 160 GB
- Serial and Parallel Ports
- TWO USB Ports (2.0)
- RJ45 10/100 Network Port
- 8" High Resolution Touch Sensitive LCD Display
- 110/220V 50/60Hz Auto-Selectable



RADLAB Options:

- Scale: used to weigh sample and download directly into RADLAB system
- Digital Camera@ photograph the sample and include this with the evaluation report
- UPS Backup: UPS battery backup
- Quick Scan Mode: Counts Per Second mode

Software consists of:

- Windows™ Based Operating System with Pentium Processor
- Windows™ Based RADLAB Application Software
- Easy to Use Menu Driven Interface with Touch Screen Applications
- Configurable Data Storage with Backup
- Emailing Capability with Network Connection
- Historic Sample Tracking and Comparison
- Fully Remote Access with Software and Hardware Service Capability

Calibration Details consists of:

- Energy Resolution 8.5% or better for 662 KeV
- Spectral Resolution: 256/512/1024 Software Selectable Depending on Application
- Energy Range: 30 KeV to 3.0 KeV (Gamma)
- Sensitivity Calibration: response is Calibrated for Specific Isotopes
- System Calibration Software Monitor with Operator Alert.



RADCOMM

RADIATION DETECTION SYSTEMS

Working in association with

HIGGINS BALERS LTD
RENEWING, REPAIRING, REPLACING

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For all your recycling needs