

Next Level in Radiation Detection

- Industry leading technology
- Fast reacting alarm response with isotopic identification
- Utilizes gamma spectra energy deconvolution technique
- State of the art large volume, high resolution Thallium Doped Sodium Iodide crystal (Nal(TI)) scintillation detectors
- Standalone technology or combined with PVT based systems
- Flexible installation allowing for use in a variety of applications and industrial settings
- Stabilization without a radioactive check source
- Neutron detection capability (Optional)
- Ability to retrofit or upgrade existing systems

RC7000

NEUSPEC SPECTROSCOPIC RADIATION DETECTION SYSTEMS

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Next Level in Radiation Detection

The RC7000 utilizes gamma spectra energy deconvolution techniques, a significant improvement over conventional PVT scintillator based systems. This technology is specifically designed to enhance a radiation detection systems ability to recognize specific gamma energies which can adversely affect alarm thresholds. The RC7000 utilizes a series of advanced isotopic identification algorithms in conjunction with RadComm's industry-leading and proven Region Of Interest (R.O.I.) analyses to provide best in class detection and identification.

Stabilization Without a Radioactive Check Source

RC7000 systems incorporate large Sodium Iodide Thallium doped crystals (NaI(TI)) specifically selected for high resolution signal response. The crystals are protected inside a stainless steel case with a low density aluminum door. To ensure the best possible spectral analyses, the Sodium Iodide crystals must be continuously stabilized. The RC7000 stabilizes these crystals with specific Gamma energies associated with the ambient background energies, thus eliminating the need for a radioactive check source.

Flexible Multiple Applications

The RC7000 can be used in a variety of applications including: enhancement of an existing PVT based vehicle monitoring system, conveyor belt and area monitoring. RC7000's gamma spectra energy deconvolution algorithms give the system the ability to either ignore (for example NORM or medical isotopes) or alarm on specific gamma energies.













RC7000 VEHICLE RADIATION DETECTION SYSTEMS

RC7000 Series Components

- Detector assemblies
- RadLink embedded controller
- Smart Infrared presence sensors
- Large touchscreen monitor
- Remote communications package (Optional)

RadLink Controller Features

- Large touchscreen LCD monitor
- Large storage capacity for system operational information and alarms
- Easy to follow multilingual menu outlines and descriptions
- Multi-level security password control
- Detailed alarm and scan data storage
- Easy to set alarm configuration menu
- Network access for remote service and monitoring
- Radiation levels displaying in either: cps, R/h, Sv/h
- Vehicle speed measurement in km/h or mph
- Internal operating temperature displayed in Celsius & Fahrenheit
 Adjustable audio alarm
- Counter for number of scans in a 24 hour period for incoming and outgoing scans
- Detailed alarm information displayed and stored after every alarm
- Configurable email reporting
- Various string outputs available

Detector Features

- Detector case: 36"H(915cm)x 12"L(30.5cm)x 7"W(18cm)
- Outer detector case: painted aluminum
- NEMA 4 (IP65) rated
- Integral PMTs with EM shielding
- High speed DSP circuitry with High SNR
- Ultra stable high voltage software adjustable
- Temperature sensor
- Internal operating temperature: -20°C (-4°F) +55°C (131°F)
- Relative humidity: 93% non-condensing at 40°C (104°F)
- Vibration: 2 g for 15 min at 10 33 Hz in XYZ directions (ANSI N42.34, ANSI N42.38)
- Shock: Complies with ANSI N42.34, ANSI N42.38
- EM compatibility: ANSI N42.34, ANSI 42.38 compliant
- CE compliant (EU safety, RFI and EMI directives)



Corporate Head Office Scott Aikin Saikin@radcommsystems.com Jeff Adams jadams@radcommsystems.com 2931 Portland Drive Oakville, ON Canada L6H 5S4 Tel. +1 (905) 829-8290 Toll Free. 1 (800) 588-5229 Fax. +1 (905) 829-1406 USA Joshua Hunter

jhunter@radcommsystems.com 602 E. Lincolnway Ave. Valparaiso, IN USA 46383 Tel. +1 (773) 680-8430 Toll Free. 1 (800) 588-5229 Fax. +1 (219) 510-5764



Spectrometer Specifications

- Nal(Tl) Crystal Variety of sizes available
- Energy Resolution 8.0% or better for of 662 KeV
- Energy Range: 20 KeV to 3.0 MeV (Gamma)
- System Calibration Software Monitor with Operator Alert
- Dose Rate Range 1nSv/h to 1.0mSv/h Auto-Ranging
- Gamma Spectrum 512 Channels, channel capacity 16 bits
- Correction non-linear energy calibration
- Detection Specification: Meets ANSI N42.38 (2006)

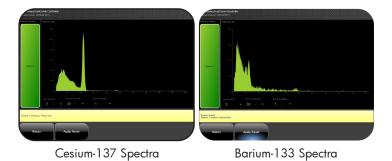
Options

- Camera
- External alarms
- Supervisory software
- Neutron détection (He3 or alternative)
- Mixed/Hybrid PVT/Nal configurations



Cobalt-60 Spectra

Thorium-232 Spectra



Europe Wim van Hove

Wim van Hove wim.van.hove@radcommeurope.com Watertorenweg 32, 2230 Herselt, Belgium Tel. + 32.14.75.02.13 Fax. + 32.14.75.02.16 India

Neelakshi Bhargava neelakshi@radcommsystems.co.in C-34, Ground Floor, Sawan Park, Ashok Vihar New Delhi 110052, India Tel. + 91-9717671924 Fax. + 91-9818650118