

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

- Innovative Design
- User Friendly, Easy to Operate
- Adjustable Alarm Threshold Settings
- Site Specific Calibration
- Auto-Restart after Power Outage
- Easy to install and setup.

# RC1000

## VEHICLE RADIATION DETECTION SYSTEMS

### Detection of Radioactivity in Low Density Materials

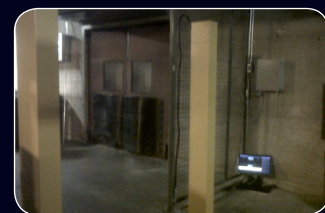
The RC1000 series of radiation detection systems have been designed for lower density materials such as waste and light/bulky scrap metal. The vehicle size and type will help determine the appropriate detector panel size (34L or 69L). The RC1000 detection systems all utilize RadComm's high quality specially prepared Polyvinyl Toluene (PVT) scintillators. The proprietary PVT design has been optimized 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 startup. Once the alarm thresholds are setup, system operation is automated. In the event an increase in the measured radiation levels is detected, an increasing audio frequency will sound with an accompanying Red Alarm lamp will alert the operator to the presence of radioactive material.

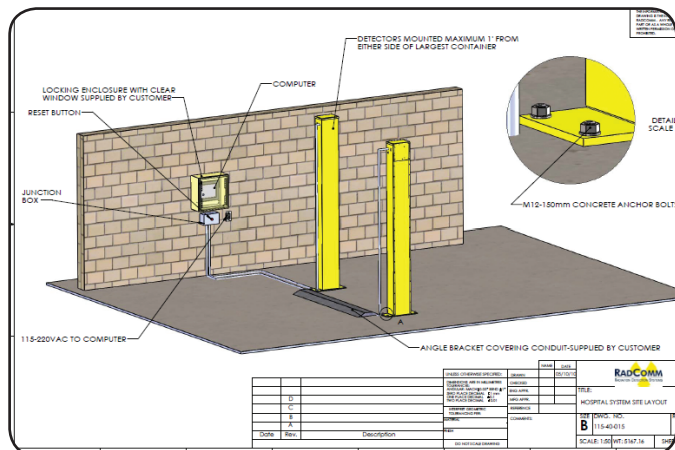
### Flexible and upgradable

The RC1000 design is considered an entry level system where the operator will have to manually record and track alarm information and other parameters. In anticipation of future requirements the RC1000 system is fully capable of upgrading to the RC2000 and RC4000 that have full automation of the manual tasks of the RC1000 system. These upgrades enable such features as detailed data storage, real time tracking, network capability, and manual scanning.



## The 1000 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
- 24 Vdc Input Voltage @ 800mA
- Sensitivity: Typ. 0.05 counts/s/cm3/nSv/h-1

## RC1000 Controller consists of:

- 2.5" Touch-Sensitive LCD Display
- High Speed Micro-Controller
- Audio and Visual Alarms
- Radiation Levels Displayed in CPS (counts per second)
- Internal Non-Radioactive Test Source.

**Energy range:** 50KeV to 3.0MeV (Incident)

Model #	RC1034	RC1069
System Size (in <sup>3</sup> )	2,108	4,216
System Size (L)	34.5	69
System size is based on 2 panels.		
PER/Panel Size (in <sup>3</sup> )	1,054	2,108
PER/Panel Size (L)	17.25	34.5
# of PMT's/panel	1	1
*Detection Capability/Overall Sensitivity-unshielded source (Shielded Source)	3.3uCi (116mCi)	2.3uCi (82mCi)
* Radiation measurement of 137Cs (point source) at 1 meter from the face of the detector (the radiation exposure level is comparable to a 75mm x 150mm 137Cs lead sealed source buried in 20 lbs/ft <sup>3</sup> (0.32 g/cm <sup>3</sup> ) of scrap metal)		

### 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

### Europe

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

### China

Zhenhau Wang  
wang.zhenhau@ehc-global.com  
212-215 Malu Industrial Park, No. 58  
Chen Bao Rd., Jiading  
Shanghai, 201801, China  
Tel. +86-21-69153031  
Fax: +86-21-69153231

### Mexican Office

Eduardo Ballesteros  
analiticacontrol@prodginy.net.mx  
Amatista No.27, El Pedregal  
Atizapan de Zaragoza, 52948, Estado De Mexico  
Tel: (52) 55 5077 4633/(52) 55 3615 4910

### Black Sea

Osman Tureyyen  
metkim@metkim.com  
Kavacak, Onarimli Sokak  
No 9 Altay Han  
Daire: 8 Beykoz, Istanbul, Turkey  
Tel. +90 (216) 425-1412  
Fax: +90 (216) 425-1432