



## RC750

### *Watchdog* Radiation Monitor



The **RC750 WatchDog** Radiation Detection System was designed specifically for the scrap and recycling industry to provide the absolute highest level of radioactive source detection in real-time for small to medium size weigh scale applications. RadComm Systems is a leading provider of innovative, radiation detection solutions for the Recycling industry. For more than 20 years, RadComm has been supplying the cutting edge and industry-leading radiation detection systems designed and developed exclusively for the metals and recycling industries. All of our advanced technology is based on real-world designs for real-world applications.

RadComm is uniquely positioned to provide the Scrap Industry with a new and innovative radiation monitoring solution for low level radioactivity for small weigh scale applications. The design of the RC750 addresses all the challenges associated with monitoring small and medium volumes of material as it is being weighed in and out on the weigh scale.

The RadComm RC750 detection system provides a wide angle-of-view to ensure the entire weigh scale loading points will be scanned at all times during weighing periods. The RC750 features a large 744 in3 (12.2L) of high-grade PVT to ensure all material and storage equipment (i.e.: Gaylord Boxes, Tippers, Bins, etc.) are automatically scanned quickly and efficiently with the most advanced technology available for detecting low level radiation emissions.



The RC750 will arrive on your site ready to go to work. The system is virtually plug and play; the end-user simply needs to plug the system into a 87-240 VAC supply and bolt it to the floor. No on-site set-up or commissioning assistance is required.

The RC750 comes complete with an adjustable self-supporting stand, embedded audio/visual indicators, network connection, quick reset capabilities, and an embedded large backlit LCD. On startup, the RC750 automatically sets a series of sensitive alarm thresholds while compensating for ambient background radiation. This allows the RC750 to detect very low radiation levels even when radioactive sources are buried under recycled materials.

## SPECIFICATIONS

### SIZE:

- Detector box size: 42" x 16" x 7" (106.68cm x 40.64cm x 17.78cm)
- Height Adjustable: From – 60" tall to 73-1/2" tall (1.52 meter to 1.87 meter)
- Detector Weight: \*200 lbs (\*90.7 kgs) \*Estimated
- Large Premium Grade PVT Detector – 744 in<sup>3</sup>/ 12.2 Liters
- Display – Backlit RGB Color LCD 320x240 resolution
- Viewing area: 2.7"x2.1" (68.9mm x 53.3mm)
- Insulated Detector Box with Neman 4 (IP 66) rating

### ELECTRONICS:

- Hi Signal to Noise Ratio Integral PMT with EM Shielding
- High Speed Micro-Controller with High Speed Pulse Processor
- Audio (up to 90 dB) with Red Light/Green Light and Large Reset Button
- Stable Low Noise, High Voltage Power Supply
- 87-240Vac power supply input
- Internal Non-Radioactive Test Source for detailed and repeatable checks
- Retro Reflective Optical Sensor
- RJ45 connector
- Internal Electronics Operating Temperature: -4°F to 131°F (-20°C to +55°C)

### SOFTWARE

- Menu Driven User Interface
- Selectable Units of Measure: CPS, uSv/h, uR/h
- RJ45 connection for Online Service and Support
- Smart Mode Optical Sensor
- Noise Reduction Software

### RESPONSE - SENSITIVITY

- Energy Range: 30 KeV – 2.0 MeV
- Sensitivity: 12cps/uCi of Cs137 @ 1 Meter
- Photon and Particle Sensitivity: X-Ray and Gamma
- Adjustable Alarm Level with auto compensating ambient background radiation adjustment

