



Portable RadCheck™ Overview

- Portable RadCheck is comprised of a single Mobile Detection Unit (DU) with an ATS Radiological Sensor carried by a person in a bag (e.g. backpack, briefcase, luggage) to investigate an Incident or Potential Incident Area.
- A hand-held display provides the user with real-time feedback.

Automatic Targeted Spectroscopic™ Radiological Sensor

- The Automatic Targeted Spectroscopic (ATS) Radiological Sensor is capable of detecting Radiological Dispersal Devices (“dirty bombs”) and Radiological Exposure Devices (“silent bombs”), and distinguishing these malicious devices from acceptable radiation sources routinely found in any environment under surveillance.

Detection Unit

- The Detection Unit (DU) collects gross gamma counts and ATS gamma counts from the sensors, augments these with location and timing data and stores them locally. The DU communicates this data directly to the RadCheck Monitor.
- The DU utilizes battery power and is light-weight to allow for portability.
- *Optionally, the DU may determine location using onboard GPS and communicate with a server via wireless network connection.*

RadCheck Monitor™

- The RadCheck Monitor (RCM) is dynamic software that displays the current color coded “threat level” information provided by the DU. The RCM is displayed on a battery powered hand-held display. It provides complete radiological threat information, including visual and audio incident alerts, in real-time.

ATS Radiological Sensor

Spectroscopy: supports ATS detection
 Range: 610 m (3σ for 5 kCi Cs137)
 Volume: 0.1 L
 Physical Dimensions: 2” x 2” x 10”
 Weight: 2 lbs
 Operation Temperature: -40°C to +60°C

Detection Units

Supported Sensors:
 MDI ATS Radiological sensor
 any CBRNe RS232 sensor
 Spectroscopy: supports ATS detection
 GPS Accuracy: <6m (50%), <9m (90%)
 Sampling Rate: 1 second
 Power: 12V battery (8+ hours)
 current: 272 mA
 Physical Dimensions: 10”x 8” x 1”
 Weight: 2 lbs
 Operation Temperature: -40°C to +60°C

RadCheck Monitor

Power Consumption:
 battery: 8+ hours of operation
 Display: 5” LCD

Patents pending in US, Canada and Europe