



## Portable RadCheck™ Overview

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

## Targeted Automatic Gamma Spectroscopy™ Radiological Sensor

- The Targeted Automatic Gamma Spectroscopy™ (TAGS) 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 TAGS 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 laptop or battery powered hand-held display. It provides complete radiological threat information, including visual and audio incident alerts, in real-time.

## TAGS Radiological Sensor

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

## Detection Units

Supported Sensors:

MDI TAGS Radiological sensor  
 any CBRNe RS232 sensor

Spectroscopy: supports TAGS 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: Laptop or 5” LCD

Patents pending in US, UK, Germany, France, Canada.

Patents granted in US(8,026,846); UK, Germany, France (1,692,672)