



Vehicle RadCheck™ Overview

- Vehicle RadCheck is comprised of a single Mobile Detection Unit (DU) with an TAGS™ Radiological Sensor deployed in a single vehicle to investigate an Incident or Potential Incident Area.
- A laptop or dash-mounted display provides the vehicle occupants 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 sensor, augments these with location and timing data and stores them locally. The DU communicates this data directly to the RadCheck Monitor.
- The DU utilizes the vehicle power supply and is ruggedized to endure vibrations and temperature extremes in the vehicle’s trunk.
- *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 in the Vehicle on a laptop or dash-mounted display powered by the vehicle power supply. It provides complete radiological threat information, including visual and audio incident alerts, in real-time to the first responders in the vehicle.

TAGS Radiological Sensor

Spectroscopy: supports TAGS detection
 Range: 640 m (3σ for 5 kCi Cs137)
 Volume: 2 L
 Physical Dimensions: 4” x 4” x 19.5”
 Weight: 7.5 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 DC (10.5V-16V, unregulated)
 current: 272 mA

Physical Dimensions: 10”x 8” x 4”

Weight: 12 lbs

Operation Temperature: -40°C to +60°C

RadCheck Monitor

Power Consumption: 12V DC

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)