



Radioactive Material Detection Made Easy with Radiation Scout

Detection and identification of radiological threats are critical in today's world. Securing locations against the theft and transportation of these deadly substances presents a technical and economic conundrum. Current industry solutions are not up to the task of extensive, flexible worldwide detection at a cost effective rate. Proper radiation detection coverage is limited and existing technology covers a insignificant percentage of what is truly needed



Radiation Scout is a new software application that transforms a standard laptop, desktop, or handheld PDA into an advanced radiological testing and detection station.

This innovative system provides a complete radiological security shield around buildings, facilities, ports, hospitals, transportation hubs, vehicles, and any other location that protection against radiation hazards is needed.

Radiation Scout (RS) uses standard Commercial Off the Shelf (COTS) IT equipment for detection.

Specialized equipment and chemical spectral analysis equipment is not required.



Radiation Scout deploys in minutes into any type of situation providing instant screening of personnel, packages, vehicles, pallets, and containers. Results can be fully networked and real time remote monitors can be deployed anywhere on any type of network including wireless.

Technically Speaking ...how it works!

Radiation Scout uses a standard Commercial Off the Shelf (COTS) digital camera as a sensor combined with a highly advanced gamma ray detection technology provided by RedStar Technology. As radiological materials, such as Cesium 137, are passed within the sensor's range, Radiation Scout will detect the material, capture an image of the detection area, generate audible/visual alert warnings, and automatically log the incident.



Radiation Scout Advantages

- Highly sensitive detection capability
 - Low cost of ownership, early ROI
 - Standard COTS technology
 - Minimum training requirements
 - Rapid deployment & redeployment capabilities
- Notifies alerts through alarm sounds
 - Automatic imaging and tracking of radiation events
- Operates unattended 24 hours a day



Radiation Scout Enterprise distributes alerts and creates an incident tracking record. Images and incident information will be transmitted, using a rapid secure mobile middleware technology provided by Caelum Technology, to a SQL-based database for real-time radiation results analysis delivery to networked command and control centers.

Radiation Scout Versions



Radiation Scout – PC Edition

- quickly transforms any standard Windows-based laptop or desktop into a highly effective radiological detection station
- easily deploys in a few minutes to establish a secure radiological checkpoint
- uses a digital camera to establish a detection zone revealing all abnormal levels of radiation
- provides continuous monitoring
- captures, logs and transmits event images to the command and control center



Radiation Scout – Mobile Edition

- detects radiation by activating the digital camera on a mobile PDA or Smartphone device
- processes the detection analysis in real-time on the device
- compliments the PC Edition when localizing a specific detection event
- provides security personnel the ability to pinpoint detection events
- used to manage cases and perform inspections from the time of detection through final follow up resolution



Radiation Scout – Enterprise Edition

- sends PC and Mobile results in real time to an enterprise server for storage and distribution
- provides ideal solution where numerous checkpoints for radiation need to be monitored 24-hours a day by a centralized or remote command and control facility
- provides a FIPS 140-2 compliant security encryption implementation complimented with complete authentication and access control
- includes a real-time monitor program offering overall constant review of all active PC and Mobile Scouts and the ability to be able to drill down into each Scout's details



Tricorder Data Systems, Inc. (TDS)

created Radiation Scout in 2008.

Tricorder creates products and services that provide real-time secure mobile computing solutions.

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