Underwater RadCheck™


Underwater RadCheck™ Overview

- Underwater RadCheck is comprised of a Detection Unit (DU) with a TAGS™ Radiological Sensor deployed on a submersible remote operated vehicle (ROV) to investigate a suspect target vessel or underwater locale.
- The DU and Sensor are mounted on the submersible ROV to provide threat assessment as the ROV investigates the suspect target.
- The RadCheck Server Lite and RadCheck Monitor are deployed together on one laptop for use by the operators.

Targeted Automatic Gamma Spectroscopy™ Radiological Sensor

- The Targeted Automatic Gamma Spectroscopy™ (TAGS) Radiological Sensor is capable of detecting Radiological Threat Agents and distinguishing these malicious radioactive sources from normal radiation sources routinely found in any environment under survey.

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 sends them to the RCS-Lite. The DU manages all encryption and communication to the RCS-Lite.
- The DU is integrated with the ROV's power, networking and location determination functionality.

RadCheck Server™ Lite

- The RadCheck Server Lite (RCS-Lite) simultaneously collects data from the DU, analyzes the "threat level" of the measurements based on background radiation determined from the location-based historical information and user defined criteria, and stores them in its database. This data is available to the RadCheck Monitor and other linked security systems.

RadCheck Monitor™

- The RadCheck Monitor (RCM) is dynamic software that displays the current color coded "threat level" information provided by the RCS-Lite. It provides complete radiological threat information, including visual and audio incident alerts, in real-time to the operators.

TAGS Radiological Sensor

Spectroscopy: supports TAGS detection

Underwater Range (3s for 5 kCi Cs137): 6m

Volume: 0.5L or larger

Physical Dimensions: 3.25"OD x 10.5"

Weight: 4.2lbs, neutral buoyancy

Operation Temperature: -40ºC to +60ºC

Depth Rating: 150m

Detection Units

Supported Sensors:
MDI TAGS Radiological sensor
any CBRNe RS232 sensor

Spectroscopy: supports TAGS detection

Connectivity: ROV RS232

Sampling Rate: 1 second

Power:
12V DC from ROV (10.5V-16V, unregulated)

Physical Dimensions: 10"x 8" x 1"

Weight: 1 lbs

Operation Temperature: -40ºC to +60ºC

Depth Rating: 150m

RadWatch Server Lite

Processor: 1+ GHz 32-bit or 64-bit

RAM: 2 GB

Hard Disk: 100+ GB

Operating System: Windows XP/7+

Database Technology: SQL Server, MySQL, PostgreSQL

Bandwidth Required: 128+kbps

Applications Installed: Relay Server, Data Manager, Location Manager, Database

RadWatch Manager

Processor: 1+ GHz 32-bit or 64-bit

RAM: 1 GB

Operating System: Windows XP/7+

Bandwidth Required: 128+ kbps

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

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