NEXT GENERATION OF NETWORKED
SMART CONTAINERS
Model- SMRT-CON-1
Are Dirty Bombs or Nuclear Explosives or other Weapons of Mass Destruction Sailing to your Seaport?

FEATURES:
• DETECT CONTAINERS CARRYING NUCLEAR MATERIALS
• TRACK MOVEMENT.
• PLACE DETECTORS IN SMART CONTAINERS OR LEGACY CONTAINERS SERIAL OR ETHERNET BASED ALARM AND DATA COLLECTION
• LONG VOYAGE ALLOWS HIGH SENSITIVITY RESULTS FORM INEXPENSIVE DETECTORS
• SEPARATION OF MEDICAL, HIGH GAMMA AND ATOM BOMB MATERIAL
• SENSITIVE - 1µ R/hr RESOLUTION
• RUGGED, SPLASH PROOF
• WIDE RANGE
• CONNECTS TO YOUR EXISTING WINDOWS or LINUX NETWORK
• CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES
• USER SETTABLE ALARM LEVELS
• THIN FORMAT
NO LOSS OF CARGO SPACE

Who benefits: Police and Security Department need to know what hazardous radioactive materials are entering, transiting or detonating and dispersing within your perimeter.
When and why are security personnel interested in radiation levels and other data? Three time periods Baseline time period: Baseline mapping: Background varies from place to place, due to natural causes, and old pollution and uranium and potassium in road and building materials. Prior to Detonation: The terrorist moves radioactive materials into an area, for storage or pre-positioning a dirty bomb or nuclear bomb. After Detonation: An accident, or a dirty bomb explosion releases large amounts of radioactive material in solid, liquid or airborne form.

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<th>HAZARD SENSOR</th>
<th>NUCLEAR BETA-GAMMA</th>
<th>NUCLEAR NEUTRON</th>
<th>BIOLOGICAL</th>
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<td>Nuclear Bomb</td>
<td>Active Organisms</td>
<td>Toxic Chemicals</td>
<td>Conventional Bomb or Ordinance</td>
<td>Unauthorized Container Breach</td>
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APPLICATION: Each detector node in the SMRT-CON-1 Precision Radiation Proximity analyzer system is small with unprecedented sensitivity and accuracy. The SMRT-CON-1 is designed specifically for use to give warning in case of illicit or accidental container becomes a transport of radioactive and fissile material. Suitable uses are for Seaports and shipment centers both in USA and overseas. Also for truck fleets and rail-cars and at customs entry and exit points. Unprecedented sensitivity sea transports.

REASON FOR NEUTRON DETECTION: Some fissile materials have only WEAK gamma emissions which are hard to detect. These materials also have spontaneous neutron emissions. Detection of even a few neutrons is significant since the natural background neutron count rate is ZERO. When the neutron indicator comes on, we know that neutrons from fissile material are present.
SMART CONTAINERS
RADIATION TRACKING SYSTEM
Model- SMRT-CON-1

GENERAL DESCRIPTION: Neutron monitor and 40 ft. long gamma sensor alarms on radiation level settable down to background level. The SMRT-CON-1 can alarm at any of 99 preset levels. It also accurately measures exposure rate. The dose rate can be displayed on a local LCD display. When the alarm set-point is reached, the alarm relay is triggered. The SMRT-CON-1 circuitry are completely digital.

This system can be installed in SMART CONTAINERS or LEGACY CONTAINERS, as well as trucks or railcars.

OUTPUTS:
(1) Alarm relay for customer use
(2) Serial (RS-232) data output
(3) (optional) ETHERNET NODE - complete with its own IP Address.
(4) (optional) EMBEDDED SENSOR NETWORK communications

AVAILABLE CONTAINERS AND CARGO SCANNERS

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