MODULAR
Mobile Radiation Detector

Model Series - SUPER MoRAD & Mini MoRAD

MAKE ANY VAN OR TRUCK INTO
A MOBILE RADIATION LABORATORY
The Super MoRAD

Easy Slide-in Installation
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<table>
<thead>
<tr>
<th>USERS</th>
<th>MINI-MORAD</th>
<th>SUPER MORAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police Departments</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Health Departments</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>First Responders</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Nuclear Power Plants</td>
<td></td>
<td>Yes</td>
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<tr>
<td>National Laboratories</td>
<td></td>
<td>Yes</td>
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<tr>
<td>Environmental Protection Agency</td>
<td></td>
<td>Yes</td>
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<tr>
<td>Homeland Security</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Radiation Map Makers</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
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APPLICATION:

Situation #1
**Nuclear power station or Public Health officials** responding to a Radiation Release Event or Found Radiation Report. Or, a nuclear facility may have a person or a team that routinely transverses near site, collecting air and water samples and using a survey meter to record Ambient Radiation levels at a selected point.

Solution:
The team leader slides the **Super MoRAD**, multi-detector module into the van or truck creating a mobile radiation laboratory. Working from this well-outfitted mobile lab is very effective. If the test is positive the onboard GPS communication system automatically calls in the results to the shift captain and to the main computer. At that time the team can make additional on-the-spot measurements to map and spreading radiation plume.

Situation #2
**Homeland Security, Police Departments and other public or private security organizations** provide fixed-mount and **mobile video feeds** in response to a nuclear threat or event. **Nuclear Radiation Levels** need to be recorded and mapped. A suspected dirty bomb or nuclear device site requires mapping showing radiation levels at each point.

Solution:
Mapping and tracking of radiation levels is a simple matter with the **MoRAD** detection equipment.

When and Why are Homeland Security personnel interested in radiation levels?

THREE TIME PERIODS:
**Baseline:** Background radiation levels vary from place to place, due to natural causes and old road and building materials polluted with uranium and potassium.

**Prior to Detonation:** The terrorist moves radioactive materials into an area, for storage or pre-positioning a dirty bomb or nuclear bomb prior to detonation.

**After Detonation:** An industrial accident or a dirty bomb explosion releases large mounts of radioactive material in solid, liquid or airborne form.
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MINI-MORAD FEATURES:

• RADIATION MAPPING TOOL
• SENSITIVE - 1 µR/hr RESOLUTION
• SMALL SIZE
• RUGGED, SPLASH PROOF
• WIDE RANGE COVERED
• CHOOSE UP TO 8 BETA-GAMMA & NEUTRON DETECTORS
• CONNECTS TO YOUR EXISTING COMPUTER INFRASTRUCTURE SUCH AS: WINDOWS - LINUX - SCADA SYSTEMS
• NETWORK
• CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES
• USER SETTABLE ALARM LEVELS
• TARGETED and OMNI-DIRECTIONAL DETECTORS

<table>
<thead>
<tr>
<th>Omni-Directional Detectors (Choose up to 8 Detectors)</th>
<th>Detector Model</th>
<th>Type</th>
<th>Diameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Range Gamma Mapping &amp; Search Tool</td>
<td>PGS-3Lmo</td>
<td>Scintillator</td>
<td>2”</td>
<td>1 µR/hr to 1mR/hr</td>
</tr>
<tr>
<td>Mid-High Range Gamma Mapping &amp; Search Tool</td>
<td>P-7LBmo</td>
<td>GM</td>
<td>1”</td>
<td>10 R/hr to 10 m/Rhr</td>
</tr>
<tr>
<td>Very High Range Gamma Mapping &amp; Search Tool</td>
<td>TBM-ICHmo</td>
<td>Ion Chamber</td>
<td>3”</td>
<td>100 mR/hr to 500 R/hr</td>
</tr>
<tr>
<td>Neutron Mapping &amp; Search Tool</td>
<td>PNS-19mo</td>
<td>Scintillator</td>
<td>1.5”</td>
<td>5-10,000 neutrons/cm²/sec Sensitive to all energies</td>
</tr>
<tr>
<td>Air-Borne Particulates</td>
<td>AIR-TBMMo</td>
<td>Air Samples+Filter+Detector</td>
<td>2”</td>
<td>3 x 10⁷ uCi/cc in 1 minute Detects Radioactive Dust &amp; Particles</td>
</tr>
<tr>
<td>Targeted Detector</td>
<td>PGS-3LSW</td>
<td>Collimated</td>
<td>Operator controlled swivel provides specific direction determination of threat.</td>
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</table>
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Wireless Vehicle Management

Mini-MoRAD

Some Users Do Their Own After-Market Customizing