

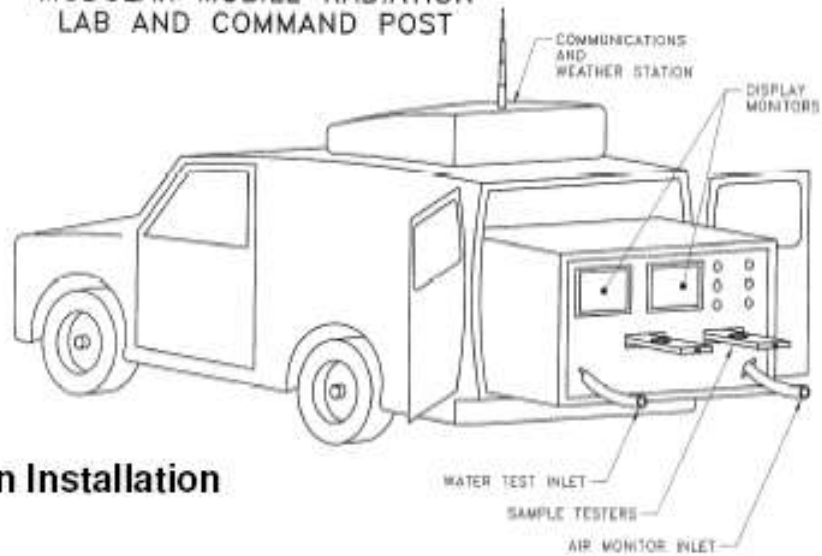
# MODULAR Mobile Radiation Detector

Model Series - SUPER MoRAD & Mini MoRAD

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



MODULAR MOBILE RADIATION  
LAB AND COMMAND POST



**Easy Slide-in Installation**



**TECHNCIAL ASSOCIATES**

7051 Eton Ave., Canoga Park, CA 91303

818-883-7043 (Phone) 818-883-6103 (Fax) [tagold@nwc.net](mailto:tagold@nwc.net) - [WWW.TECH-ASSOCIATES.COM](http://WWW.TECH-ASSOCIATES.COM)

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# MODULAR

## Mobile Radiation Detector

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USERS	MINI-MORAD	SUPER MORAD
Police Departments	Yes	Yes
Health Departments	Yes	Yes
First Responders	Yes	Yes
Nuclear Power Plants		Yes
National Laboratories		Yes
Environmental Protection Agency		Yes
Homeland Security	Yes	Yes
Radiation Map Makers	Yes	Yes

#### **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 amounts of radioactive material in solid, liquid or airborne form.



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## MINI-MORAD FEATURES:

- RADIATION MAPPING TOOL
- SENSITIVE - 1  $\mu$ R/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



Mini-MoRAD

Omni-Directional Detectors (Choose up to 8 Detectors)	Detector Model	Type	Diameter	Range
Low Range Gamma Mapping & Search Tool	PGS-3Lmo	Scintillator	2"	1 $\mu$ R/hr to 1mR/hr
Mid-High Range Gamma Mapping & Search Tool	P-7LBmo	GM	1"	10 R/hr to 10 m/Rhr
Very High Range Gamma Mapping & Search Tool	TBM-ICHmo	Ion Chamber	3"	100 mR/hr to 500 R/hr
Neutron Mapping & Search Tool	PNS-19mo	Scintillator	1.5"	5-10,000 neutrons/cm <sup>2</sup> /sec Sensitive to all energies
Air-Borne Particulates	AIR-TBMmo	Air Samples+Filter+Detector	2"	3 x 10 <sup>-7</sup> uCi/cc in 1 minute Detects Radioactive Dust & Particles
Targeted Detector	PGS-3LSW	Collimated – Operator controlled swivel provides specific direction determination of threat.		



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Wireless Vehicle Management



Mini-MoRAD



Some Users Do Their Own After-Market Customizing



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