

# Mobile Radiation Detector

## Model Series: MoRad and Super MoRAD

### Situation 1

Landfills, scrap yards, recycling centers, demolitions and collection services are industries at great risk for coming into contact with radioactive contamination. The high cost and specific laws for disposal of radioactive waste are often deterrents to proper disposal.

### Situation 2

When the police get a call out to a suspected dirty bomb or nuclear device site, they **need maps showing long-standing radiation levels at each point**, as well as current radiation levels. This valuable information is available with the use of the **MoRad Radiation Detection** instrument.

### Summary

Power:	Vehicle, battery or AC
Detects:	Neutron, Gamma, with optional Alpha and Beta probes
Detectors:	Rugged with mounting brackets and appropriate cabling
Supports:	Alpha / Beta Air Monitor
Display:	Directly to laptop or SELF-CONTAINED UNIT – SUPER MORAD
Data Download:	USB ports on both models: MoRad and Super MoRAD
Sensitivity:	

**Usable Probes Cover Range:** 1uR/hr to 1000 R/hr; 0 to 30,000 Cps; 0.1 mRem/hr to 10 Rem/hr. *Please see following chart.*

### Specialty Features

- High sensitivity Gamma can be mounted with swivel controlled aim
- Radio telemetry for remote monitoring option
- Displays results on satellite image of local terrain
- Chemical sensor and or Chemical Warfare Agents sensor integration option
- Will support up to 4 detectors simultaneously – Standard, **Optional** - 6 Detectors
- **Super MoRAD** is a slide in unit to a van or a truck creating a mobile radiation lab and command post. Self-contained for 7 detectors and built in computer. Air, water, weather and command communication.

### Description

Detectors are rugged and waterproof. If detectors are mounted on the vehicle brackets are provided with enough cabling to reach the electronics box.

- The user's laptop is connected to the electronics and detector readout is displayed.
- Interface software is provided. **Optional:** Laptop with loaded software.

#### When and why are security personnel interested in radiation levels?

Three time periods are of interest:

- **Baseline time period / Baseline mapping:** Background varies from place to place, due to natural causes, and old pollution as well as uranium and potassium in found in roads and in building materials.
- **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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