MOBILE RADIATION DETECTOR

Model ~ MoRad

FEATURES:

- VEHICLE MOUNTED RADIATION DETECTOR
- DETECTS BETA-GAMMA RADIATION & NEUTRONS.
- SENSITIVE - 1µ R/hr RESOLUTION
- SMALL SIZE
- RUGGED, SPLASH PROOF
- WIDE MEASUREMENT RANGE
- CHOOSE UP TO 8 BETA-GAMMA &/OR NEUTRON DETECTORS
- EASY CONNECTION TO YOUR EXISTING COMPUTER
- CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES
- USER SETTABLE ALARM LEVELS
- **IP63**

OPTIONAL:

- TARGETED and OMNI-DIRECTIONAL DETECTORS
- BUILT-IN GPS

APPLICATIONS:

- Scrap Yards
- Collection Services
- Landfills
- Demolition
- Police
- Fire

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.

TA CBRN Real - Time Air & Water Specialists

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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.

Mapping and recording the baseline radiation levels is an invaluable tool for emergency personnel. Having this information in hand is critical in determining a potential threat level short of an actual detonation.

Omni-Directional Detectors (choose up to 8 detectors)	Detector Model	Type	Diameter	Range
Ultra Low Range Gamma Mapping & Search Tool	PGS-3x3Lmomo	Scintillator	3”	0.1µ R/hr to 1mR/hr
Low Range Gamma Mapping & Search Tool	PGS-3Lmo	Scintillator	2"	1µ R/hr to 1mR/hr
Mid to High Range Gamma Mapping	P-7LBmo	GM	1"	10µ R/hr to 10mR/hr
Very High Range Gamma Mapping	TBM-ICHmo	Ion Chamber	3"	100mR/hr to 500R/hr
Neutron Mapping Tool	PNS-19mo	Scintillator	1.5"	5-10,000 neutrons/cm^2/sec. Sensitive to all energies.
AIR-BORNE PARTICULATES After dirty bomb explodes	AIR-TBMmo	Air Samples + filter + detector	2"	3 x 10^{-7} µ Ci/cc in 1 minute detects Rad dust & vapors.

Model PGS-3LSW is a Targeted Detector:

This collimated detector with operator controlled swivel, allows operator to determine specific direction of Gamma-emitter threat.

ALSO AVAILABLE FOR EMERGENCY RESPONSE

OPTIONS	MODEL
Drinking Water Tester	**MEDA-5T**
Food Tester	**FL-1000**

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SPECIFICATIONS:

- **MAIN READ OUT VIA LAPTOP PC**
- **OPTIONAL - Digital•Readout:** 6 digit LCD Rate, 8 digit integrate.
- **Time Base:** Crystal controlled 1-10,000 seconds, user settable.
- **Range:**
  Usable Probes Cover Range: 1uR/hr to 1000 R/hr; 0 to 30,000 Cps; 0.1 mRem/hr to 10 Rem/hr.
- **Alarm:** 2000 Hz audio tone with audio "mute" switch + RED LED, OPTIONAL High Current Relay – User Settable.
- **Single Channel Adjustable Energy Window:**
- **Energy Analyzer/Discriminator:** 10-turn, 1000 division pot for each threshold.
  10-turn, 1000 division pot for window width.
- **Detector:**
  Mates with T/A Probes, any GM, Proportional or Scintillation:
  Alpha, Beta, Gamma, Positron, X-Ray, Neutron, Tritium.
- **Detector Connector:** BNC bulkhead mount (MHV optional).
- **Detector Bias:** 0-2000V regulated and filtered.
- **Supply:** High Voltage is adjustable & repeatable with the 10 turn dial.
- **Settable scale factors allow readout in almost any units on PC**.
- **Engineering Units:** R/h or cpm User Settable
- **Panel Controls:** On-Off Toggle;(2-4) Upper & Lower Threshold Dials;
  (2-4) High Voltage Dials.
- **Calibration:** Digital input of calibration factor gives high precision adjustment.
- **Serial Output:** Two way, RS-232 standard, USB optional.
- **Construction:** NEMA-4X aluminum gasket sealed case with handle:
  Rugged / splash-proof.
  All plug in circuit cards.

Data Archive: 10,000

- **Computer interface:** Ethernet & RS-232 Port
  TAquire Software for Readout and Data Archive on Users Tablet / PC
- **OPTIONS:** USB
  GPS

POWER:

- **Power:** Built –in Rechargeable Battery Pack
- **Batteries:** 12v, 4.8 Amp Hour built-in L-ion battery pack with AC Charger Adapter
- **Battery Life:** 3-5 days at 8 Hour/day

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DIMENSIONS & WEIGHT:

Dimensions: 13” W x 10” D x 10” H
Weight: 6 lbs

EMERGENCY RESPONSE VEHICLES WITH MORAD ON BOARD

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