

ETHERNET
MOBILE RADIATION DETECTOR
Model # MoRad

FEATURES:

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



WHO BENEFITS:

If you work for police department or other public or private security organization. Or if your group is providing fixed-mount and mobile video feeds to make maps and to help local and national law enforcement, You should also be recording Nuclear Radiation Levels.

Situation: When the police get a call to go to a suspected dirty bomb or nuclear device site, they need maps from you showing long-standing radiation levels at each point, as well as current radiation levels from either their MoRad equipment or your MoRad detection equipment.

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

TA **TECHNICAL ASSOCIATES**

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Omni-Directional Detectors (choose up to 8 detectors)	Detector Model	Type	Diameter	Range
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.

Targeted Detector model PGS-3LSW - This collimated detector with operator controlled swivel, allows operator to determine specific direction of gamma-emitter threat.

Other Products Available:

Drinking Water Tester Model MEDA-5T
Food Tester Model FL-1000

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Performance Specifications

Number of Counters	8
Counter Mode Performance:	
Guaranteed count rate	50 Khz
Count Resolution	32 bits
Rate (frequency) mode performances:	
Maximum input rate	50,000 per sec
Shortest Measurement Period	10mS
Longest Measurement Period	1 minute
Position Mode Performance:	
Maximum position axes (2 channels/axis)	4
Maximum pulses per second	25,000
Maximum quadrature states per second	100,000
Position Resolution	32 bits
Input Performance:	
Guaranteed count input voltage	4 Volts
Maximum count in-out voltage	30 Volts
Guaranteed off in-out voltage	1.5 Volts
Nominal count input current	8mA
Required supply voltage	10-30 VDC (1.4 watt typical)
Operating temperature range	-30 to 70°C
Storage temperature range	-40 to 85°C
Humidity (non-condensing)	5 to 95%



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RS485 Port for I/O Expansion

Max. RemoteTRAK modules	32 (up to 512 I/O)
Protocol	SIXNET ``I/O for Windows and Mobus ASCII and RTU
Baud Rate	38,400 bps
Recommended distance	Up to 0.5 mile
Isolation (from Ethernet port)	1200 Volts RMS 1 minute



Wireless Vehicle Management
<http://www.networkcar.com/networkcar/pub/fleet>

Overhoff New Product Overview
<http://www.overhoff.com/pdf/overview.pdf>