

# MOBILE RADIATION DETECTOR

## 移动辐射探测器

Model ~ MoRad

### FEATURES: 特点

- VEHICLE MOUNTED RADIATION DETECTOR  
车载辐射探测器
- DETECTS BETA-GAMMA RADIATION & NEUTRONS.  
检测  $\beta$ - $\gamma$  辐射&中子
- SENSITIVE - 1 $\mu$  R/hr RESOLUTION  
灵敏-1 $\mu$  R/hr 分辨率
- SMALL SIZE  
小巧
- RUGGED, SPLASH PROOF  
坚固, 防溅
- WIDE MEASUREMENT RANGE  
宽测量量程
- CHOOSE UP TO 8 BETA-GAMMA &/OR NEUTRON DETECTORS  
可选多达 8 个  $\beta$ - $\gamma$  和/或中子探测器
- EASY CONNECTION TO YOUR EXISTING COMPUTER  
容易与现有电脑连接
- CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES  
可远程连接到因特网
- USER SETTABLE ALARM LEVELS  
用户可设定报警值

### OPTIONAL: 选择

- TARGETED and OMNI-DIRECTIONAL DETECTORS  
目标和全方位探头
- BUILT-IN GPS  
内置 GPS



### APPLICATIONS: 应用

- Scrap Yards 废物场
- Collection Services 回收服务
- Landfills 填埋场
- Demolition 拆迁
- Police 警用
- Fire 消防



TECHNICAL ASSOCIATES

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#### SITUATION 1: 情形 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.

填埋场，废物场，回收中心，和回收服务场所为接触辐射污染风险极大行业，正确处理辐射废物高成本和法律规定令人生畏。

#### SITUATION 2: 情形 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.

当警察接警到怀疑有脏弹或核设施场所，他们需要每个点的长期辐射水平和当前辐射水平。这个宝贵的信息科通过使用 MoRad 辐射仪器获得。

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

何时，为什么安保人员对辐射水平感兴趣？

Three time periods are of interest: 三个兴趣时段：

- **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.
- 基线时段：因自然原因和旧污染及路上和建筑材料中的铀和钾等原因，每个地方本底不一样。
- **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.
- 核爆炸之前：恐怖分子将辐射材料运到某个区域或预放脏弹或核弹
- **After Detonation:** An industrial accident or a dirty bomb explosion releases large mounts of radioactive material in solid, liquid or airborne form.
- 核爆炸之后：工业事故或脏弹爆炸释放大量固态液体或气态辐射物质

**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.**

测绘和记录这些基线辐射水平对于应急人员来说非常宝贵，有了这些材料在手上对于在实际爆炸前短暂时间内确定是否与潜在危险特别重要。



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Model PGS-3LSW is a Targeted Detector:

Model PGS-3LSW 是目标探测器

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

这款准直探头带操作旋轴允许操作者确定具体伽马发射物方向。

ALSO AVAILABLE FOR  
EMERGENCY RESPONSE  
也用于应急响应

| OPTIONS 可选                     | MODEL 型号 |
|--------------------------------|----------|
| Drinking Water Tester<br>饮用水测试 | MEDA-5T  |
| Food Tester<br>食品测试            | FL-1000  |

### SPECIFICATIONS: 参数

- **MAIN READ OUT VIA LAPTOP PC**  
主要通过笔记本电脑显示读数
- **OPTIONAL - Digital•Readout:** 6 digit LCD Rate, 8 digit integrate.  
可选-数字读数器: 6位数LCD计数率, 8位数综合计数
- **Time Base:** Crystal controlled 1-10,000 seconds, user settable.  
时间基数: 晶体控制1-10,000秒, 用户设定
- **Range:** 量程  
**Usable Probes Cover Range:** 1uR/hr to 1000 R/hr; 0 to 30,000 Cps; 0.1 mRem/hr to 10 Rem/hr.  
有效量程:
- **Alarm:** 2000 Hz audio tone with audio "mute" switch + RED LED, OPTIONAL High Current Relay – User Settable.  
报警: 带静音的2000Hz+红灯, 可选大电流继电器-用户设定
- **Single Channel Adjustable Energy Window:**  
单通道可调节能量窗
- **Energy Analyzer/Discriminator:** 10-turn, 1000 division pot for each threshold.  
10-turn, 1000 division pot for window width.  
能量分析仪/识别器: 10转, 每个阈值带1000刻度点电位计
- **Detector: 探测器**  
**Mates with T/A Probes, any GM, Proportional or Scintillation:**  
Alpha, Beta, Gamma, Positron, X-Ray, Neutron, Tritium.  
与T/A公司探测器, 所有GM探测器, 正比和闪烁探测器匹配: 测量  $\alpha$   $\beta$   $\gamma$ , 正电子, 中子及氚
- **Detector Connector:** BNC bulkhead mount (MHV optional).  
探测器连接件:



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- **Detector Bias:** 0-2000V regulated and filtered.  
探头偏置: 0-2000V 调节过滤
  - **Supply:** High Voltage is adjustable & repeatable with the 10 turn dial.  
高压电源: 高压可调节&重复, 10转
  - **Settable scale factors allow readout in almost any units on PC.**  
可设定标定因子允许在PC机上显示任何单位
  - **Engineering Units:** R/h or cpm User Settable  
单位: R/h或用户设定
  - **Panel Controls:** On-Off Toggle;(2-4) Upper & Lower Threshold Dials;  
(2-4) High Voltage Dials.  
控制板: 棒式开关: 开-关 (2-4) 上/下阈值旋钮; (2-4) 高压调节旋钮
  - **Calibration:** Digital input of calibration factor gives high precision adjustment.  
刻度: 刻度因子数字输入精确调整
  - **Serial Output:** Two way, RS-232 standard, USB optional.  
串口输出: 两路, RS-232, 标准输出, 可选USB
  - **Construction:** NEMA-4X aluminum gasket sealed case with handle:  
Rugged / splash-proof.  
结构: NEMA-4X铝密封箱带把手, 结实/防水溅  
All plug in circuit cards. 全插卡式
- Data Archive:** 10,000 data points  
数据存档:
- **Computer interface:** Ethernet & RS-232 Port  
TAquire Software for Readout and Data Archive on Users Tablet / PC  
电脑接口: 以太网, RS-232; TA显示和数据存储软件用于用户电脑上
  - **OPTIONS:** USB  
GPS  
可选:

### POWER:

### 电源

- **Power:** Built -in Rechargeable Battery Pack  
电源: 内置可充电电池组
- **Batteries:** 12v, 4.8 Amp Hour built-in L-ion battery pack with AC Charger Adapter  
电池: 12V, 4.8安培内置锂电池组带AC充电适配器
- **Battery Life:** 3-5 days at 8 Hour/day  
电池寿命: 8小时/天可使用3-5天



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## DIMENSIONS & WEIGHT: 尺寸&重量

Dimensions: 13" W x 10" D x 10" H  
尺寸: 13" 宽 x 10" 深 x 10" 高  
Weight: 6 lbs  
重量

**CUSTOMIZED  
EMERGENCY RESPONSE VEHICLE  
WITH MORAD ON BOARD**  
应急车辆可定制 MoRad 为机载型



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