

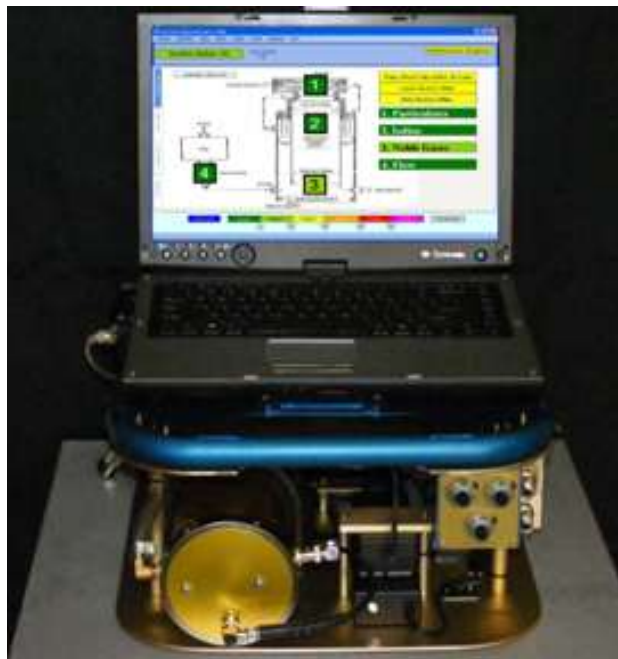
# PORTABLE ISOTOPE IDENTIFIER Search Tool / Sample Counting System

便携式同位素识别仪  
搜索工具/样品计数系统

## Model - RAD-ID-TA

### FEATURES: 特点

- HIGH GAMMA SENSITIVITY  
高伽马灵敏度
- MULTI-CHANNEL ANALYZER (MCA)  
多道分析仪 (MCA)
- WORKS WITH VARIETY OF PROBES  
与各种探头兼容
- RADIONUCLIDE LIBRARY TAILORED TO CUSTOMER REQUEST  
辐射核素库可根据用户要求调整
- SIMULTANEOUSLY MEASURES ;  
DISPLAYS; ALARMS 1 - 3 SEPARATE  
DETECTORS  
独立探测器同时测量,显示,报警,1-3个  
独立探头
- PC INCLUDED  
包括电脑
- COMPUTER INTERFACE – USB OR  
ETHERNET (Easy Integration into  
external SCADA system)  
计算机接口-USB 或以太网 (容易与主机整  
合)
- DATA LOGGER – BUILT IN  
数据录入-内置
- DYNAMIC BACKGROUND SUBTRACT  
动态本底扣除
- USEFUL AS SMART SURVEY METER  
OR AS SAMPLE COUNTER  
作为智能巡测仪或样品计数器
- SET UP PARAMETERS CAN BE  
PASSWORD-PROTECTED  
设定参数保护密码
- LIGHTWEIGHT, COMPLETE PORTABLE  
SYSTEM – HAND CARRY; OPTIONAL  
CART
- 轻量,完全便携,手持式,可选轮车



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303  
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The RAD-ID-TA Portable Isotope Identifier is sensitive & versatile; a complete sample counting system.  
此便携式核素识别仪灵敏&用途广泛，是一款一体样品计数系统。

### GENERAL DESCRIPTION: 一般描述

#### The RAD-ID-TA Portable Isotope Identifier Advantages:

##### RAD-ID-TA 便携式核素识别仪优点:

- Identifies principal nuclides in sample  
识别样品中主要核素
- Visual energy spectrum aids understanding of radiation environment.  
能谱显示能更好地帮助理解辐射环境
- Identification aids in finding the source of radiation.  
核素识别帮助找出辐射源
- Enhanced sensitivity  
提高灵敏度
- Settable to areas of interest  
可设定兴趣区
- Built in gain stabilizer for better utility in different temperatures.  
内置增益稳定器有助于更好用于不同温度环境
- Radionuclide Library Tailored To Customer Request  
辐射核素可根据用户要求调整
- In cases of illegal dumping perpetrators can be inferred from isotope identifiers.  
以防非法倾倒，核素识别器可推断出非法倾倒者。

The RAD-ID-TA incorporates the Multi-Channel Analyzer (MCA) which provides analysis. RAD-ID-TA can be used as both a sample counting system and/or a search tool in addition for monitoring hood, glove box, packages or other hazardous situations.

RAD-ID-TA 使用多道分析仪提供核素分析，既可以用作简单的计数器也可以作为搜索工具，还可以监测通风罩、手套箱、包裹或其它有害场所。

The RAD-ID-TA assures safety against radioactivity contamination with a real-time constant check.

RAD-ID-TA 针对辐射污染进行实时连续监测以确保安全。

### PROCESS-FOR EXAMPLE: 使用过程-例如

**Search Tool:** Use the PGS-3L Scintillation Probe to identify radiation sources.  
**搜索工具:** 使用 PGS-3L 闪烁探头识别辐射源



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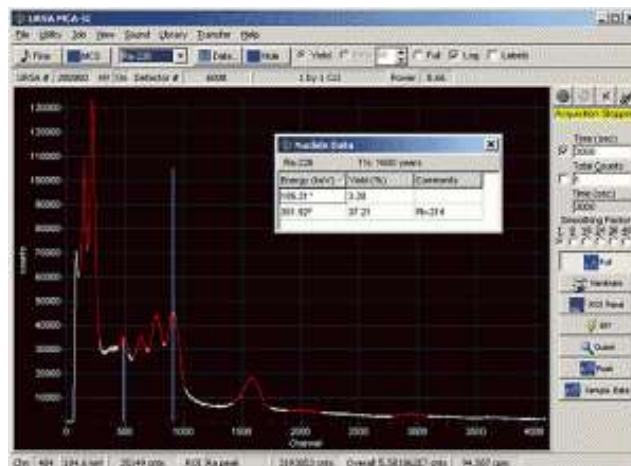
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**Sample Counting System:** Place sample into Sample Drawer with the PGS-3L attached. (See diagram)  
样品计数器: 将样品放入样品抽屉里, 带 PGS-3L。

### GAMMA DETECTION: 伽马探测

Gamma emitter content is measured using a PGS-3L scintillation detector with an MCA (Multi Channel Analyzer) with greater than 512 channels with a user settable energy range. For example the MCA can be set to show Gamma peaks from 15 KeV to 3.5 MeV.

带(512道以上)多道分析仪的PGS-3L闪烁探测器测量伽马发射物, 用户设定能量范围, 例如MCA可设定为显示伽马峰值范围15 KeV - 3.5 MeV



### Isotope Identification System – TA SMART-PEAK™

#### 核素分析系统软件- TA SMART-PEAK™

Software detects even low gamma concentrations. The isotope identifier specifies and displays radioactive nuclides.

软件甚至探测到低伽马浓度。同位素识别器明确并显示辐射核素。

### APPLICATION: 应用

- Homeland Security 国土安全部门
- Emergency Response 应急响应
- Medical – Nuclear Medicine / Imaging / Waste Management / Industrial Hygiene
- 医疗-核医药/影像/废物管理/工业卫生
- Environmental Waste Monitoring 环境废物监测
- Illegal Dumping of Medical or Industrial Waste 非法倾倒医疗或工业废物
- Industrial accident 工业事件
- Roadside Chemical Spill 路面化学物倾洒
- Terrorist Action / Threat 恐怖行动/威胁

**RAD-ID-TA can be used to search a car or scan suspicious objects or search for a cache of radioactive materials**

**RAD-ID-TA可以用来搜索车辆, 扫描可疑物件或搜索储藏的辐射物质**



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### DESCRIPTION: 描述

The RAD-ID-TA is a continuous duty, high capacity, rugged, portable system. It is a 3-channel monitor for SIMULTANEOUS measurement of Gamma & Neutron emitting isotopes.

RAD-ID-TA是一款连续作业，高容量，结实便携系统，是一款3-通道监测器，系统同时测量伽马&中子发射体。

Electronics are microprocessor based with portable PC display.

微处理器电子学带PC机显示器

Detector heads are self-contained allowing change or addition of functions as needed & allowing rapid repair by substitution in the field. The system is covered by TA's unique module exchange warranty, in addition to the full one year warranty covering all TA products.

一体探测器头允许功能添加或改变，允许现场快速更换维修。除了享受TA公司一年保修外，系统还在TA公司独有的模块包换范围内。

The entire system is extremely light & transportable, & comes complete with all cabling & connectors in place, fully tested & ready to operate. An optional cart is available.

System is 115V single phase; 220V optional, 50/60 Hz.

整个系统极其轻便，随机带所有缆线和连接件，整机经过测试准备使用，可选择轮车。

系统单相电115V，可选220v, 50/60 Hz.

### SPECIFICATIONS: 规格

•Channels: Three

通道: 3

•Activity Detected: Alpha, Beta, Beta-Gamma Background, Gamma, Neutron, Positron

探测活度:  $\alpha$ 、 $\beta$ 、 $\beta$ - $\gamma$ 本底,  $\gamma$ , 中子, 正阳子

OPTIONAL DETECTORS 选择探头	Standard 标准型	Optional Alternative Detectors 可选探头
Alpha $\alpha$	2" dia. GM 2mg/cm <sup>2</sup> Model T-1190	Solid State Alpha Detector 固体 $\alpha$ 探头
Beta $\beta$	2" dia. GM 6mg/cm <sup>2</sup> Model T-1190	Beta Scintillator $\beta$ 闪烁体
Gamma $\gamma$	2" dia. Scintillation NaI(Tl)	BGO Scintillator BGO闪烁体
Neutron 中子	He3	BF3
Positron 正阳子	2" dia. Scintillation NaI(Tl)	Coincidence Sensor 符合传感器
Beta-Gamma Background $\beta$ - $\gamma$ 本底	Small GM Tube	



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### OPTIONAL DETECTOR STYLES: 可选择探头特点

- 3" x 3" NaI (TI) spectroscopic grade crystal.  
光谱级晶体碘化钠 3" x 3"
- LaBr (Lanthanum Bromide)  
溴化镧

<b>Energy Range:</b>	15 KeV – 3.5 MeV
能量范围:	
<b>Energy Resolution:</b>	7% Nominal
能量分辨率	
<b>Alarm:</b>	Audio and Visual (On Screen)
报警	屏显视听报警
<b>Detector:</b>	High sensitivity PGS-3L Scintillation detector with 2" x 2" NaI (TI) spectroscopic grade crystal.
探测器:	高灵敏 PGS-3L 闪烁探测器, 2" x 2" NaI (TI)光谱级晶体
<b>Battery Power:</b>	Built-in battery charger
电池电源:	内置电池充电器
<b>High Voltage:</b>	Separately variable per detector from 0 to 1,500V (or 2,500V).
高压:	每个探头单独可变0 - 1,500V (或2,500V).
<b>Readout Screen:</b>	Showing both real-time dose rate & accumulated doses for all channels.
读出显示:	显示所有通道实时剂量率和累计剂量
<b>Status Lights:</b>	"ON", "Alarm", "Fault".
状态指示灯:	开, 报警, 故障
<b>Accuracy:</b>	± 10% except for resolution loss & statistical variation.
精度:	± 10%不含分辨率损失和统计变化
<b>Alarms:</b>	All alarms are easily set by user to any value within instrument range.
报警:	所有报警仪器量程范围内用户容易设定
<b>Alert Level Alarm:</b>	Automatic Reset.
报警值:	自动重设
<b>High Level Alarm:</b>	High level alarm remains activated until RESET button is pushed.
高报警:	重设按钮按动前上限报警保持激活状态
<b>Silent Alarm:</b>	<b>OPTIONAL</b>
静音报警:	可选
<b>3 Separate Alarms:</b>	3 Channels
	3通道分别报警
<b>Alarm Indication:</b>	PC Screen displays & sounds all alarms.



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报警指示:	PC屏幕显示&声音报警 MAL-Z Alarm module has lights & audio for each channel: Red-High level / Amber-Low Level. 报警模块每个通道指示灯&声音报警; 红灯-上限/琥珀色-下限 Audio: 1000Hz, greater than 80db & fail-safe & alarm relays for customer use. 声音: 1000Hz, 优于80db, 故障安全&报警继电器
Readout Units:	User Selectable: <b>Search Tool:</b> mR/h; mRem/h; cps, mSv/h <b>Sample Counting System:</b> $\mu$ Ci; Bq, cps
读出单位:	用户设定: 搜索工具: mR/h; mRem/h; cps, mSv/h 样品计数系统: $\mu$ Ci; Bq, cps
Display Update:	Count time is user settable from 1 to 120 seconds
显示更新:	计数时间用户设定1-120秒范围内
Trend Display:	Graphic Display: 30 minutes, 8 hours, 24 hours, 30 days, 90 days, 1 year.
趋势显示:	图谱显示: 30分钟, 8小时, 24小时, 30天, 90天, 1年
Self-Tests:	Automatic self-test at start-up Continuous self-tests & alarm for each detector.
自测:	启动时自测, 每个探测器连续自测&报警
Environmental:	<b>Temperature:</b> 0°C to 45°C; <b>OPTIONAL:</b> -10°C to +50°C, <b>Relative Humidity:</b> 0 to 95%
环境:	温度0°C to 45°C; 可选: -10°C to +50°C, 相对湿度: 0 - 95%

## ELECTRONIC SYSTEM DESCRIPTION: (Microprocessor based)

### 电子学系统描述: (微处理系统)

#### Electronics is high quality Windows PC including:

电子学部分为高质量便携式Windows PC系统, 包括:

Operating Software:	TAcquire™ custom software plus Excel Spread Sheet
操作软件:	TAcquire™客户定制软件加Excel表格
Radionuclide Library:	Radionuclide Library Tailored To Customer Request
辐射核素库:	辐射核素库可根据用户要求调整
Data:	Stores Data to MS ACCESS Database. Data Files are Importable into Excel
数据:	将数据存储在微软的数据库, 数据文件可存为 Excel
CPU with Data Acquisition:	High Resolution COLOR display, Audio



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<b>CPU及数据收集:</b>	高分辨率彩色显示, 音响。
<b>Data Ports:</b>	USB & Ethernet
数据接口:	
<b>USB-Flash Drive:</b>	For data storage – 10 years storage
<b>USB驱动:</b>	10年数据存储
<b>Terabyte hard drive.</b>	Stores programs & 20 YEAR'S of Detailed DATA plus alarm record. Room for new software functions in the future. Specialized <b>TAcquire™</b> software.
<b>1TB硬盘:</b>	数据存储20年+报警记录, 新软件添加功能, 专用 <b>TAcquire™</b> 软件
<b>Power:</b>	110 VAC - 60 Hz, 220 VAC optional 50/60 Hz Internal Battery Backup, Fail Safe
电源:	110 VAC - 60 Hz, 220 VAC 可选 50/60 Hz 内置备用电池, 自动防故障装置
<b>Special Safety Features:</b>	All circuits fused. Loss of signal alarms.
特别安全功能:	所有电路熔合, 信号丢失报警
<b>Outputs:</b>	Alarm condition outputs: 1. Logic Level Signal - From PC 2. Contact closure or opening - From <b>Optional</b> MAL-Z alarm module.
输出:	报警输出: 1. 逻辑电平信号-来自PC机 2. 继电器闭合-来自可选的MAL-Z报警模块
<b>Hand Carry:</b>	System can be easily h& carried without cart.
手提:	系统无需轮车可容易携带 <b>OPTIONAL: Cart</b> 选项: 轮车
<b>OPTIONAL:</b>	Printer for hard copy
可选:	打印机用于硬拷贝

## **WEIGHT, DIMENSIONS, SHIPPING INFORMATION:** **重量, 尺寸, 邮寄信息:**

<b>Dimensions:</b>	<b>Electronics:</b> W 14.5" x H 10" x D 20".
尺寸:	电子学:
<b>Hand Carry Weight:</b>	7 kg
手提重量:	



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**Consumables:**

System is shipped with planchettes & wipes.

耗材:

系统邮寄时带擦拭纸和圆片。

**Accessories:**

System is shipped with all necessary accessories included & tested with system including all cables, connectors, & manual.

配件:

系统邮寄时带所有测试过的必须配件包括所有缆线，连接件和手册。

**MANUAL INCLUDED**

手册包括

**OPTIONS:**

可选择

- Different detector types,  
不同类型探头
- Cart,  
轮车
- MAL-Z alarm/relay module,  
MAL-Z报警/继电器模块
- Silent Alarm  
静音报警
- Ethernet & USB are included, other interfaces for 4-20mA, RS-485, are optional.  
以太网和USB, 其它可选4-20mA, RS-485
- Calibrated Radiation Standard (Cs-137, Ba-133)  
标定辐射标准(Cs-137, Ba-133)



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FEATURES 特点	TYPICAL (Open Market) 典型	TECHNICAL ASSOCIATES RAD-ID-TA
Display 显示	40 Characters	14" Color LCD Monitor
Dependable 依赖性	NO	YES
Number of Simultaneous Measurement Channels 同时测量通道	1	3
Microprocessor Speed 微处理器速度	Various	2GHz
<b>Data Storage Capacity</b> 数据存储能力		
Bytes	0.05 MB	1 TB
Years	83 days	20 Year Data
Precision: Data Storage Intervals 精确标准: 数据存储时间	Every Hour 每小时	2x each minute 每分钟 2 次
Removable Data Storage 移动数据存储	NO	Flash Drive
Real Time Gamma Compensation 实时伽马补偿	NO	10 µR/h to 25 mR/h
<b>Data Archive &amp; Retrieval:</b> 数据存储与检索		
Any Day This Year 当年任何一天	NO	YES
Any Month This Year 当年任何月份	NO	YES
This Year to Date 当年到至今	NO	YES
Daily Average or Total 每天平均或全部	NO	YES
Monthly Average or Total 每月平均或全部	NO	YES
Full Year Average or Total 全年平均或全部	NO	YES
Ethernet & USB	NO	YES



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**PGS-3L SCINTILLATION PROBE**  
PGS-3L 闪烁探头

**PGS-3L  
DETECTOR ASSEMBLY**  
探头组件



**STG-ID  
SAMPLE COUNTER  
DRAWER**  
STG-ID 样品抽屉系统



**Easy Hand Carry**  
易于携带

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