

PORTABLE ISOTOPE IDENTIFIER

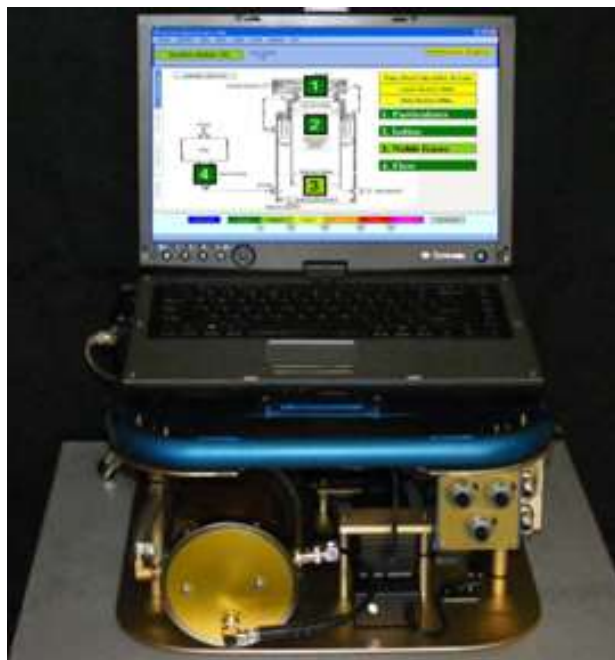
Search Tool / Sample Counting System

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
对伽马高灵敏
- MULTI-CHANNEL ANALYZER (MCA)
多道分析仪
- WORKS WITH VARIETY OF PROBES
与各种探头兼容
- RADIONUCLIDE LIBRARY TAILORED TO CUSTOMER REQUEST
核素库可按客户要求提供
- SIMULTANEOUSLY MEASURES ; DISPLAYS;
ALARMS 1 - 3 SEPARATE DETECTORS
同时测量、显示、报警, 1-3 独立探头
- PC INCLUDED
包括 PC 机
- COMPUTER INTERFACE – USB OR ETHERNET
(Easy Integration into SCADA System)
电脑接口-USB 或以太网 (易与 SCADA 系统兼容)
- DATA LOGGER – BUILT IN
数据录入-内置
- DYNAMIC BACKGROUND SUBTRACT
动态本底补偿
- USEFUL AS SMART SURVEY METER OR AS
SAMPLE COUNTER
用作智能巡测仪或样品计数器
- SET UP PARAMETERS CAN BE PASSWORD-
PROTECTED
可设定密码保护设定的参数
- LIGHTWEIGHT, COMPLETE PORTABLE SYSTEM
– HAND CARRY; OPTIONAL CART
轻量、完全便携-手提, 可选轮车
- IP52



**RAD-ID-TA WITH
3 DETECTOR HOLDER**

The RAD-ID-TA Portable Isotope Identifier is sensitive & versatile; a complete sample counting system.

RAD-ID-TA 便携式核素识别灵敏、多功能、完整样品计数系统

GENERAL DESCRIPTION:



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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
- Identifies principal nuclides in air
识别空气中主要核素
- 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
增强灵敏度
- 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环境温度下
- Radionuclide Library Tailored To Customer Request
根据用户需要设定核素库
- 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 &/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: 过程

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

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 or other Scintillation detector with the MCA (Multi Channel Analyzer) with greater than 512 channels with a user settable energy range & readout. For example the MCA can be set to show Gamma peaks from 15 KeV to 3.5 MeV.



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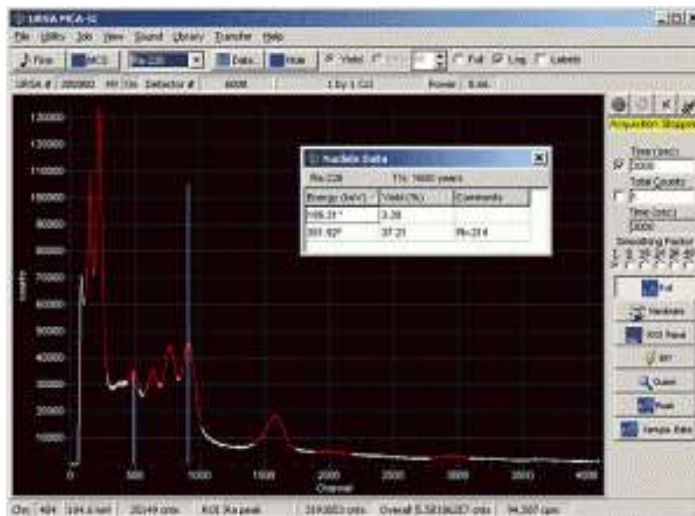
使用带（512道以上）多道分析仪的PGS-3L或其它闪烁探测器测量伽马发射物，用户设定能量范围&读出单位，例如MCA可设定为显示伽马峰值范围15 KeV - 3.5 MeV

Isotope Identification System – TA SMART-PEAK™

核素分析系统软件

Software detects even low Gamma concentrations. The isotope identifier specifies & displays radioactive nuclides.

软件甚至探测低浓度伽马，污染同位素识别器明确并显示辐射核素。



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

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.

Electronics are microprocessor based with portable PC display.

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.

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.



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RAD-ID-TA是一款连续、高通量、结实便携设备，3通道同时测量伽马&中子发射核素；电子学微处理器笔记本电脑显示；独立探头易于更换及功能添加，一年质保。整个系统极其轻便，带所需线缆及连接件，测试合格一切就绪，可选择轮车。115V单相电，可选220V 50/60 Hz.

SPECIFICATIONS: 参数规格

•Channels: Three 三通道

•Activity Detected: Alpha, Beta, Beta-Gamma Background, Gamma, Neutron, Positron
探测: α β β - γ 本底, γ , 中子, 正电子

OPTIONAL DETECTORS 可选探头	Standard 标准	Optional Alternative Detectors 可选替换探头
Alpha α	2" dia. GM 2mg/cm ² Model T-1190	Solid State Alpha Detector 固体 α 探头
Beta β	2" dia. GM 6mg/cm ² Model T-1190	Beta Scintillator
Gamma γ	2" dia. Scintillation NaI(Tl)	BGO Scintillator
Neutron 中子	He3	BF3
Positron 正电子	2" dia. Scintillation NaI(Ti)	Coincidence Sensor
Beta-Gamma Background β - γ 本底	Small GM Tube	

OPTIONAL DETECTOR STYLES: 可选探头类型

- 3" x 3" NaI (Tl) spectroscopic grade crystal. 光谱级碘化钠晶体
- LaBr (Lanthanum Bromide) 溴化镧

Energy Range:	Gamma - 15 KeV – 3.5 MeV
能量范围:	γ - 15 KeV – 3.5 MeV
Energy Resolution:	7% Nominal
能量分辨率:	7%
Alarm:	Audio & Visual (On Screen)
报警:	声光
Battery Power:	Built-in battery charger
电池:	内置电池充电
High Voltage:	Separately variable per detector from 0 to 1,500V (or 2,500V).
高压:	每个探头独立高压0 -1,500V (或者2,500V).
Readout Screen:	Showing both real-time dose rate & accumulated doses for all channels.
显示:	实时显示所有通道剂量率和总剂量
Status Lights:	"ON", "Alarm", "Fault".
状态指示灯:	"开" "报警" "故障"
Accuracy:	\pm 10% except for resolution loss & statistical variation.
精度:	\pm 10% 不含分辨率损失和统计变化



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Alarms:	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
Alert Level Alarm:	Automatic Reset.
报警值:	自动重设
High Level Alarm:	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
Silent Alarm:	OPTIONAL
静音报警:	可选
3 Separate Alarms:	3 Channels
	3通道分别报警
Alarm Indication:	PC Screen displays & sounds all alarms.
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: Search Tool: mR/h; mRem/h; cps, mSv/h
	Sample Counting System: μ 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: μ 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:	Temperature: 0°C to 45°C; OPTIONAL: -10°C to +50°C,
	Relative Humidity: 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:



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电子学部分为高质量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:	将数据存储于微软的数据库, 数据文件可存为 Excel
CPU with Data Acquisition:	High Resolution COLOR display, Audio
CPU及数据收集:	高分辨率彩色显示, 音响。
Data Ports:	USB & Ethernet
数据接口:	
USB-Flash Drive:	For data storage – 10 years storage
USB驱动:	10年数据存储
Terabyte hard drive.	Stores programs & 20 YEAR'S of Detailed DATA plus alarm record. Room for new software functions in the future. Specialized TAcquire™ software.
1TB硬盘:	数据存储20年+报警记录, 新软件添加功能, 专用 TAcquire™ 软件
Power:	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
Special Safety Features:	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
Outputs:	Alarm condition outputs: 1. Logic Level Signal - From PC 2. Contact closure or opening - From Optional 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
H& Carry:	System can be easily h& carried without cart.
携带:	系统无需轮车可容易携带
OPTIONAL:	OPTIONAL: Cart 选项: 轮车
可选:	Printer for hard copy 打印机用于硬拷贝



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WEIGHT, DIMENSIONS, SHIPPING INFORMATION:

重量, 尺寸, 邮寄信息:

Dimensions:

尺寸:

H& Carry Weight:

手提重量:

Electronics: W 14.5" x H 10" x D 20".

电子学:

7 kg

Consumables:

耗材:

Accessories:

配件:

System is shipped with planchettes & wipes.

系统邮寄时带擦拭纸和圆片。

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

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
Data Storage Capacity 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 μ R/h to 25 mR/h
Data Archive & Retrieval: 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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