LAURUS Systems Inc. is a certified woman-owned small business corporation that specializes in the sales, service, installation and training of radiation, chemical, biological and explosives detection equipment. LAURUS Systems has acquired an expansive customer base in the U.S. and abroad including, federal, state, and local agencies; military installations; national labs; hospitals; and commercial manufacturing and processing entities.

The LAURUS mission is to exceed customer expectations and to take an innovative approach to business. Many of our products carry an unheard of full two (2) year warranty. We represent only those manufacturers who share our vision and meet or exceed the following benchmarks:

- First and foremost being responsive to the needs of the customer.
- Provide only high quality, durable equipment.
- Meet or exceed applicable industry standards; mil-specs, ANSI, NRC etc.

LAURUS Systems, Inc. has built a solid reputation on fair pricing, quality products and understanding and most importantly, responding to the needs of the customer. We are pleased to offer our products under the General Services Administration (GSA) Schedule. Contact us for information regarding other specially negotiated contracts.

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LAURUS Systems offers solutions to training and performance issues brought about by technological, procedural, or regulatory changes. We are experienced in the instruments we provide as well as in the use of these technologies in the field. Our expertise goes beyond that, however, as we can provide practical training for virtually any radiation detection instrument. Likewise, we can provide programs to help your staff understand and better respond to the radiological issues that they will face in sensible and easy to comprehend formats.

Our experienced staff and contract personnel will help you perform a needs analysis, create and implement a custom solution tailored to your needs, determine whether your training investment is achieving the desired results, and offer you a number of delivery options.
RAD60 personal alarming dosimeter is a simple to use stand-alone device that can be easily configured and programmed with a push of a button. Unique features include the ability to transform into a system dosimeter for use with access control programs and dose tracking systems. Included also are enhanced EMI shielding and a non-volatile memory function for retrieval of dose, even during power down.

**Leather & Padded Nylon Dosimeter Holders**
- Designed Exclusively for use with Rados RAD60
- Substantial savings on clip replacements and repairs
- Less dosimeter “down-time” for your in-house inventory
- Allows for secure use on a lanyard, belt, or other utility device

**Dosimeter Configuration Kits & Readers**
Readers come equipped with dosimeter configuration software to manage the all electronic dosimeter settings and thresholds for the RAD60 and DMC3000 series of instruments.

**Instadose & Instadose Plus**
Instadose and Instadose Plus brings radiation monitoring into the digital age. Smaller than a flash drive, this rugged dosimeter provides an instant read-out when connected to any computer with internet access via a USB connector.

This revolutionary device provides radiation workers with complete control over when and how frequently they get their readings, with unlimited readings included for one low price. Based upon patented direct ion storage technology, Instadose includes access to each users historical and current exposure readings. There is no need to send badges to a processing center, simplifying administration and reducing costs.

**DMC 3000**
Covering a wide range of X-Ray and Gamma radiation detection, our DMC 3000 Electronic Dosimeter represents over 25 years of real-world electronic dosimetry experience, continually refined through customer feedback. The high contrast and backlit LCD display provides a clear indication of wearer’s dose and ambient dose rate for deep dose equivalent. More importantly, multiple methods (audible, visual, and tactile) are utilized to alert the wearer of alarm conditions. Best of all, the DMC 3000 provides all of this protection, for over 2500 hours of continuous use, with a single AAA battery.

**Innovative modular design!**
The DMC3000 features an innovative and cost effective modular design whereby the beta monitoring option, neutron dosimetry option and telemetry options integrate easily by simply snapping into place. This eliminates the need for additional costly instruments when applications and needs change.

**Beta Module**
The Beta Module provides operational dosimetry for hospital personnel, first responders, and radiation workers where there is a Beta radiation risk. The add-on Beta module plugged to the DMC 3000 dosimeter provides Hp (0.07) and a wide range of beta radiation measurement.

**Neutron Module**
The Neutron Module provides operational dosimetry for Military, First Responders and radiation workers where there is a Neutron radiation risk. The add-on Neutron Module attaches to the DMC 3000 dosimeter and is able to measure Hp(10) radiation at a wide range of energy levels.

**Telemetry Module**
The Telemetry Module is an accessory device for the DMC3000 that physically integrates into the dosimeter’s case. The purpose of the Telemetry Module is to transmit a worker’s radiological data (accumulated dose, dose rate and alarm status) to other WRM2 Telemetry System components (Base Station, Repeater, etc.).
The Tracerco PED-IS, for workers who are not specially trained to measure radiation exposure. It is safe to use when monitoring radiation exposure in potentially explosive environments. (Intrinsically Safe). Everything on the dosimeter has been designed with the user in mind, the display features radiation graph measurements and a simple diagram of a man who fills with color depending on the dose of radiation received. DoseVision™, the software interface for the radiation dosimeter has specifically been developed to be intuitive to use, and the dosimeter comes with a quick start guide which has been edited by the plain English campaign to make it easy to understand.

Direct Read Pocket Dosimeters

Direct Read Pocket Dosimeters are rugged, precision instruments about the size of a pocket fountain pen, which are used to measure accumulative doses or quantities of gamma & X-ray radiation. A metal clip is used to attach the dosimeter to an individual's pocket or to any available object in an area to be monitored for total radiation exposure. It is pocket-size, conductive-fiber electroscope with an ion chamber for detecting and indication integrated exposure to gamma and x-radiation. It has a thin wall which permits the penetration and detection of radiation.

NRF50

The Fuji Electric NRF50 Electronic Dosimeter from Fuji Electric takes worker safety to a new level, surpassing industry guidelines for real-time monitoring. The NRF50 can be retrofitted into existing systems, this device uses Wi-Fi or existing radio remote monitoring systems.

Simple connection to peripheral devices via Bluetooth allows workers to continuously monitor their dose, effectively addressing the issues like dose monitoring in high-noise areas. The dosimeter comes standard with a large visual display for convenient viewing and features an easily distinguishable red emergency call button to notify facility managers of on-site incidents that require assistance.

PED+ can be used as both a PED and a handheld dose rate survey meter. The PED+ also incorporates a number of other additional features including, Bluetooth, GPS and pop-up message alarms.

In the handheld mode, it shows readings in dose rate (Sv or rem) and displays a live trend graph to give a real time visual depiction of measured activity, measurement is corrected for use off body, and the personal accumulated dose is paused. Dose rate data is logged during off body mode to allow data review using the DoseVision™ software. A built-in Bluetooth module is included which is supported by an android mobile application - DoseVision™ Live. It allows up to 7 PED+ devices to be monitored live, with an overview of each connected device shown. With GPS data logging, the PED+ allows location data to be logged to the device alongside dose and dose rate data and can be viewed using DoseVision™. A pop-up message display on alarm threshold giving the worker clear instructions thus reducing the training burden and the need to remember procedures.

The PED Blue is a high quality personal dosimeter, featuring the same design and features as the PED-IS, in a lighter weight, non-intrinsically safe model. The device is easily charged with a direct micro USB connection, giving greater flexibility and removing the need for a charging dock. The PED Blue can also be configured to use either 2 or 4 dose alarm levels, all configurable with the exclusive DoseVision™ software.

The Radiation Alert Sentry Personal Alarming Dosimeter and Rate Meter is designed to ensure the personal safety of personnel that work in occupations with potential x-ray or gamma exposure. The pocket sized unit has built-in memory for recording data points for the purpose of tracking exposure. The Sentry Software option enables you to generate incident reconstruction for analysis. The software also enables you to easily set the vibrating and audio alert to your desired levels for dose and dose rate. Use the audio switch to choose between an audible click with every count taken, or a discreet silent mode that can be augmented with the use of headphones.

Contact Us for GSA and Quantity Pricing
Mini Rad-D

The Mini Rad-D is a highly portable, rugged, all-weather radiation detector that’s small enough to wear on a belt yet powerful enough to quickly locate low-level radioactive sources. Designed to discreetly monitor in any environment without intrusion or disruption of civilian activities, the Mini Rad-D can be set to notify the user by vibration or audible alarm whenever gamma radiation exceeds natural background levels. The “Mini’s” simple operation and highly readable display provide an automatically updated strength indicator in under 1 second, allowing a rapid area sweep to identify the exact location of any radiation source.

The “Mini” automatically calibrates itself to the natural background radiation, maximizing its detection sensitivity in any environment. What happens when the mini detects radiation? It will alarm or vibrate, depending which mode it is in and display a simple intensity number of a “1” to a “9” on a large, bright, easy to read LED display. The mini is designed to work in all weather conditions, survive submersion, survive a 3 ft drop onto concrete, and work in high-density RF environments. The Mini Rad-D uses two AA batteries to provide a battery life of over 2 years when used 48+ hrs/week.

RadEye PRD

Detect and localize radiation sources generated by manmade devices such as nuclear weapons, improvised nuclear devices (INDs) or radiological dispersal devices (RDDs) with the Thermo Scientific™ RadEye™ PRD Personal Radiation Detector. The RadEye PRD detector provides border guards, customs agents, special forces and counter terrorism teams with high-performance detection for any scenario. The Thermo Scientific™ RadEye™ PRO-ER Personal Radiation Detector with extended range, is ideal for both interdiction and response.

The RadEye PRD Detector is a high sensitivity gamma radiation detection and dose rate measurement tool for security forces, steel and recycling industry, and first responders seeing to detect and locate orphaned sources or problematic NORM related sources in scrap yards, border crossings and other public locations. 5000 to 10,000 times more sensitive than a typical electronic dosimeter; incorporates highly sensitive NaI(Tl) scintillation detector with miniature photomultiplier for detection of very low radiation levels (emphasis on gamma emissions below 400KeV).

Mini Rad-DX

The Mini Rad-DX is an advanced technology PRD. The Mini Rad-DX offers the exclusive SensorNet mesh network as well as the ability to be monitored system wide via WIFI to a central location, emailing or texting alerts to critical personnel. The Mini Rad-DX has ability to display dose rates in mR/Hr or Sv/Hr units. Several gigabytes of data and events can be stored before the memory rolls over. The data is downloaded completely or administrators can choose significant events, i.e. where the PRD actually received a ‘hit.’

Once the Mini Rad-DX comes within range of another Mini, a Rad-DX Area Monitor, the units mesh together and act as transceivers and receivers and push the data to the DX View software or other remote monitoring software. With the GPS enabled, it is possible to know the exact coordinates of the ‘event’, device, or monitoring situation. Because the Mini Rad-DX can perform all these functions automatically, there is never any interference with the user’s primary responsibilities.

identiFINDER R200

The identiFINDER R200 is a rugged, pager-sized Spectroscopic Personal Radiation Detector (SPRD). The R200 provides full ANSI N42.32 Personal Radiation Detector (PRD) compliance and features next-generation solid state detector read-out technology that delivers ANSI N42.48 SPRD compliance with nuclide identification. The clear user interface and simple data presentation common to all identiFINDER products allow it to quickly integrate with existing operational protocols and reduce the training burden.

The ability to identify specific gamma sources enables front-line responders to perform immediate detection and response during a radiological event. FLIR’s new SPM technology in combination with Cesium Iodide (CsI) detector provides high-fidelity identification (≤7.5% resolution) so front-line officers can quickly determine whether a radiation source is a true threat or benign source from medical patients, normally occurring radiation, or industrial use. The identiFINDER R200 uses this next-generation solid state detector read-out technology to advance a radiological event from “alarm and wait” to “identify and take action.”

Ph (410) 465-5558 | Fax (410) 465-5257 | Sales@LaurusSystems.com
The detection and analysis of hidden radioactive nuclides requires a radiation identification tool with high sensitivity and accuracy. Detect, localize and identify Gamma sources with the pager-sized Thermo Scientific RadEye SPRD Spectroscopic Personal Radiation Detector. The RadEye SPRD provides first responders and law enforcement teams like border guards or special forces with high performance detection and radionuclide analysis for any scenario. Metal recyclers and producers that need to detect, locate and identify orphan radionuclides in their incoming scrap material can now add an additional level of security, using the RadEye SPRD.

RadEye PRD CD System
The RadEye PRD-CD System can positively detect contraband such as drugs, explosives, weapons, currency. It is a fast and effective way of detecting any material of a density that is typical of contraband substances in tires, doors and fuel tanks etc. The system consists of a RadEye PRD-CD gamma pager combined with a RadEye contraband adapter made of a low activity Ba-133 source that is embedded in a tungsten collimator with shutter. Voids with metal walls up to 1 cm of steel yield a very different backscatter signal if empty or filled with contraband. The signal shows up in one channel of the dual channel display.

RadEye G/G-10
The RadEye G is a light-weight and very rugged instrument designed for quick and reliable measurement of gamma dose rates. Modern electronic circuitry guarantees excellent linearity over 6 decades of radiation intensity: from background level to 10 R/h - with overrange indication up to 1000 R/h. It incorporates a large energy compensated GM-tube for precise dose rate measurement for gamma and x-ray.

Contact Us for GSA and Quantity Pricing
In emergency response and in industry flammable and explosive materials like gases, dust and fibers can occur. In such potentially explosive atmospheres it is necessary to use ATEX certified devices for your measurements. The RadEye G Ex radiation detector series comprises 4 versions of intrinsically safe handheld devices for gamma and dose rate measurements. They are designed according to the latest ATEX standards to meet the needs of their operator in and around hazardous areas.

When radiation detection capabilities are necessary, operators must rely on the accuracy and dependability of their instruments. With the highest detector resolution available in a pager-sized device, the R300 virtually eliminates the false alarms and false positives that are so common to personal radiation detectors. With both detection and identification capabilities available in a single, rugged device, those on the front lines of homeland security can trust the R300 to make their job easier.

About the same size as a cell phone, the belt wearable R300 provides continuous detection capability with visible, audible and tactile alerts. Once radiation has been detected, the fast identification capability of the instrument provides essential information to the user in the field, enabling them to make a next step determination. The One Touch Reachback™ feature integrated into the R300 allows the user to immediately send a notification to team members, superior officers, situation management personnel, and expert analysts – all with a single push of a button.

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The RDS-30 Survey Meter is part of the RDS family of RADOS survey meters and offers modern design and an advanced approach to radiation monitoring. The RDS-31 features outstanding ergonomics; it is lightweight and easy to handle with visual, audible and vibrating alarms.

The large LCD screen includes an automatic illumination control feature with an energy saving backlight that can be easily read in total darkness and in direct sunlight. To make the instrument even easier to use, the buttons can be configured with easy to understand Shortcuts. The Shortcuts allow the user a straightforward and simple way to configure the instrument for performing repeated operations such as the Manual Histogram, Sample Collection, Dose Value Display, and Diagnostics. In addition, to help the users to become accustomed to the Shortcut-function, a Visualization display function can be employed.

All the Mirion external probes can be connected to the RDS-31 with the cable adapter and are automatically detected.

Optional Probes for RDS-31

- APB-150 External Alpha/Beta Probe
- GMP-11-3 External Beta Probe
- Alpha Wound Probe
- GMP-12 GSD External high dose rate gamma probe
- GMP-25 Pancake Beta Probe

Contact Us for GSA and Quantity Pricing
This microprocessor-controlled instrument represents the new gold standard of survey instruments. The **DSM-500** boasts an oversized digital display and a unique capability for dual probe capability. Comes standard with timed count capability, probe-saturation and error indicators.

The **DSM-525** is the most functional survey instrument on the market with its dual probe capability. This dual connection capability allows users the luxury of multiple level measurements with as many as four different probes calibrated to each measurement type. No more retracking to the instrument case to switch probes.

The **DSM Probes**

WB Johnson Instruments has a rich history in manufacturing radiation detection instruments. Our products are some of the most well known radiation detection products in the world. In 2011, we launched our new product line, focused on meeting the demand for a dependable and accurate radiation detection instrument. We offer a full and complete line of our DSM Probes for all of our handheld instruments.

The **ERK-525 Kit**

The **ERK-525** is a complete, portable radiation monitoring system designed to measure a broad range of radioisotope contamination under field conditions. The system contains a state of the art, microprocessor based digital display meter that auto ranges and can detect most of the common alpha, beta & gamma radiation that is likely to be present in an emergency situation. The DSM-525 is a dual probe survey meter that measures contamination and dose levels from micro-R to 200 mR/hr levels of gamma isotopes (Based on 137-Cs calibration). The instrument and accessories are contained in a very durable water resistant carrying case for easy storage and portability. The ERK-525 does not require changing probes to obtain the full operational benefits of the system. The user needs only to turn the selector switch to the desired probe and the rest of the operation is automatic.

The **DSM-502** Survey meter is designed as the perfect application for general users of radiation measurement and monitoring. It's mid-range internal detector allows for the perfect combination of accuracy, simplicity and functionality for the reliable and consistent measurement of dose.

The operation of the **DSM-506** provides users the ease of an internal detector with the additional probe capability for those specific measurement needs. This feature, with its easy to read display, digital electronics and rugged design make the 506 a perfect instrument for all applications.

The **Teletector 6112M** is a portable, battery operated dose rate meter designed to measure photon radiation (gamma and X-radiation), and to detect beta radiation. Two GM counter tubes serve as detectors. The stainless steel telescope can extend up to four meters and its tip carries the two tubes. The tubes are placed along the axis one behind the other; a groove marks the center of each tube. The low End tube detects beta radiation and together with the high end tube the Teletector covers a dose range from 10 µR/h to 1000 R/h (0.1 µSv/h to 10 Sv/h), where it automatically switches between the two tubes.
The RadEye B20 is a modern compact multi-purpose contamination meter for alpha, beta, gamma and X-ray radiation. By virtue of optional gamma energy filters, deep or shallow dose rate measurements from 17 – 1300 keV can be performed. For emergency response purposes alpha and beta contamination can be discriminated using another optional filter. The instrument is part of the growing RadEye family of high-end standalone meters, which are designed to exceed the most demanding user expectations.

**FEATURES**
- Light Weight (300 g), excellent grip with and without gloves, rugged and compact
- 500 h operation time with 2 AAA batteries – rechargeable NiMH-cells can be used
- Menu-driven user interface results in low training cost and immediate familiarity
- Huge internal data memory for both scaler results and continuous data recording
- Bright backlit LCD display – plain text messages - different languages can be selected
- Easy adaptation to different tasks by supervisor: configuration, calibration, selection of measuring units
- Versatile operation modes:: Scaler/Timer - Continuous rate meter mode for frisker operation - Dose rate mode
- Audible indication: single pulse or chirper mode proportional to count rate
- A table of up to 15 nuclides can be loaded for display in Bq or dpm

The RadEye SX is a modern compact multi-purpose survey meter for external scintillator counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements. As part of the growing RadEye product family of high-end standalone meters, the RadEye SX is designed to exceed the most demanding user expectations.

**FEATURES**
- Light Weight (300 g), excellent grip with and without gloves, rugged and compact
- 500 h operation time with 2 AAA batteries – rechargeable NiMH-cells can be used
- Menu-driven user interface results in low training cost and immediate familiarity
- Huge internal data memory for both scaler results and continuous data recording
- Bright backlit LCD display – plain text messages - different languages can be selected
- Easy adaptation to different tasks by supervisor: configuration, calibration, selection of measuring units
- Versatile operation modes:: Scaler/Timer - Continuous rate meter mode for frisker operation - Dose rate mode
- Audible indication: single pulse or chirper mode proportional to count rate
- A table of up to 15 nuclides can be loaded for display in Bq or dpm
The FH 40 G family of advanced digital survey meters is designed for many different radiation protection applications. The FH 40 G is rugged, lightweight, fits snugly in the palm of the hand and is easy to operate with large keys that enable users to wear gloves. Internal diagnostics ensure proper functioning of the detector(s) and the electronics. Alarm values are established for dose rate and integrated dose. When an alarm value is exceeded, an audible alarm is emitted. In parallel to the measured value display, an audible speaker can be activated to signal detector pulses. The FH 40 G models are designed to record up to 256 data points containing measurement number, date, time and dose rate at the internal detector and external detector, status, and bar-code information.

For fast discrimination of natural and artificial gamma radiation. The FHZ 672 E consists of a special detector of 750 cm² organic scintillation material of integral line construction, voltage divider, high voltage generator, amplifier and discriminator thresholds and NBR process computer. The indication of artificial radiation is shown by LED on the probe, as well as visually in the display and audibly by the speaker in the instrument body.
The RC2 portable radiation detector has been designed to detect very low radiation intensity levels from radioactive materials buried in scrap metal. The RC2 is an extremely effective handheld detector that utilizes a large 32 cu. in. (0.54L) internal PVT plastic scintillation detector, a common material found in most larger vehicle monitoring systems.

Operation of the RC2 is fully automatic and designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive materials, or to verify or separate radioactive materials that have triggered an alarm on large scale radiation detection systems. The RC2 contains a state-of-the-art microprocessor and internal electric circuitry designed to automatically set the lowest achievable alarm level and to continuously monitor system operation in order to maintain consistent optimum performance.

The RAD-Ion / RI-02 is the next generation ion chamber survey meter. This smart meter features accurate dose & rate measurement and programmable modes for alerting the user to posting and transportation survey requirements. The RI-02 is an air vented ionization chamber, designed for highly stable and accurate measurement of dose rates and integrated dose of gamma, x-ray and beta radiation and covers a measuring range of 0.1 mR/h to 50 R/h (1μSv/h - 500 mSv/h) in the dose rate mode, and 1μR to 1000 R (0.01 μSv - 10Sv) in the integrated dose mode.

The rounded front of the instrument is designed to improve the angular dependence capabilities of the detector providing a better linear response than previous models. The RI-02 is a world class solution for use in nuclear power plants, nuclear medicine, radiography, life science, research and other industrial applications.

The TRACERCO™ T202 Radiation Dose Rate Monitor has been specifically designed to combine intrinsic safety with ruggedized but lightweight construction and provides additional key operational features such as personal dose integration and peak dose rate. Radioactive materials are employed routinely in industry to facilitate a wide range of measurements including Process Level Control, Fluid Separation and Non-Destructive Testing. In order to protect the workforce from exposure and to ensure compliance with relevant legislation, radiation dose rates must be carefully monitored and controlled.

The Tracerco™ NORM Monitor IS allows users to monitor wet and dry NORM in a variety of situations. Its unique, intrinsically safe design incorporates different probe options to make it the optimum measurement tool. The NORM Monitor-IS Handset is available to purchase with a Scintillator Probe, a GM Probe, or Dual Probes as the NORM Monitor Kit.
identiFINDER2 (identiFINDER R400)

The FLIR identiFINDER R400 is a logical extension of the original identiFINDER series of handheld radioisotope identification detector (RIID) instruments. The spectrum is continuously LED peak stabilized to handle a wide range of count rates and conditions with no peak interference in the identification spectrum. Wired communication uses a micro USB connector, USB 2.0, or wireless via a Class 2.0 Bluetooth® interface, with a 33 ft (10m) range, which supports the reach-back capability, also provided. A Web interface is provided via USB emulated TCPIP (LAN) for monitoring and configuring the identiFINDER R400. A twelve channel, Sirf III GPS is included for incident location. Data storage has been enlarged to 1 GB to save more spectra and event information.

Unchanged are the size, shape and weight; the three button (4th for power) operation; the scintillation, neutron and GM detector types, sizes and sensitivities; the screens menus, when operated in the original identiFINDER mode; the types of alarms; the radionuclide identification accuracy; and the reliability, support and service.

identiFINDER R200

The identiFINDER R200 is a rugged, pager-sized Spectroscopic Personal Radiation Detector (SPRD). The R200 provides full ANSI N42.32 Personal Radiation Detector (PRD) compliance and features next-generation solid state detector read-out technology that delivers ANSI N42.48 SPRD compliance with nuclide identification. The clear user interface and simple data presentation common to all identiFINDER products allow it to quickly integrate with existing operational protocols and reduce the training burden.

The identiFINDER R-series of products share a field-proven, common user interface and simple data presentation. With over 20,000 identiFINDER products deployed globally, the familiar interactions with the identiFINDER R200 allow it to quickly integrate with existing operational protocols while also reducing the training burden.

radHUNTER (identiFINDER R500)

The identiFINDER R500 is an extremely sensitive and accurate digital handheld gamma radionuclide identification device (RID). It is the culmination of over eight years of development of micro-miniature, digital signal processing electronics; operating power conservation; and advancements in the scintillation detector, radionuclide template matching identification algorithm. The R500 development was supported in part by the U.S. Government.

The R500 is able to quickly detect, rapidly locate, accurately measure and precisely identify sources of contamination from their gamma radiation signature. The R500 uses a 0.75" thick by 4" diameter NaI(Tl) detector. This large cross section provides an excellent source to background ratio which rapidly locates gamma contamination. It comes with a GM tube for high gamma dose rate measurements and an optional sealed 3He detector with moderator for neutron detection. Each instrument is supplied in a carrying case with belt holster, wrist strap, battery pack and recharging unit.

The R500 operating system and user interface is based on the proven identiFINDER 2 technology. The R500 has been developed to correct for environmental conditions and other influences during field operation. The instrument performs an automatic calibration verification while powered up using intrinsic radiation and it is continuous stabilized during operation.

SYCLONE

The SYCLONE is a highly sensitive handheld Gamma-Ray spectrometer capable of identifying single or multiple isotopes simultaneously. The SYCLONE also provides the user with various functions such as Search and Find, Optional Neutron Detection, Rate Meter, Nuclide ID, Dose Rates and accumulated Dose. The SYCLONE Gamma-Ray spectrometer utilizes the highest quality Thallium doped Sodium Iodide crystal, combined with an integral high signal to noise ratio PMT and state-of-the-art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable Gamma-Ray spectrometers when it comes to identifying specific and/or multiple isotopes even with weak gamma sources. The mechanical assembly of the SYCLONE is robust and designed for field applications where harsh environments are commonplace.

The SYCLONE operating system utilizes sensitive easy to read and follow Menus. The multi-position joystick and large LCD backlit display provides easy navigation through menu selections. Detailed spectral information is clearly and precisely displayed so knowledgeable users have the ability to visually identify peaks in the histogram. Various on-screen messages assist the user when immediate attention is required for issues such as preset timing, high radiation levels, alarm settings and warning messages.
GR-135 - SYCLONE Upgrade

Retro-Fit
Out of Date
Technology to
Maximize Resources

Laurus systems provides an advanced spectrometer technology that allows specific components of existing spectrometers to be retrofitted into RadComm’s State-of-the-Art SYCLONE series of portable RIID’s (handheld radio-isotope identification device). We now have the ability to upgrade and retro fit existing and potentially out of date or inoperable GR-135™ handheld spectrometers to the SYCLONE’s advanced technology.

By redeploying specific components from the older devices, we can now offer the end user a fundamentally brand new instrument. Our exclusive process involves incorporating the existing fully functioning sensors (including He3 and moderators if applicable) with new electronics, boards, and display as well as a more durable and ergonomic case. The end result is an instrument that carries a full warranty at a fraction of the acquisition cost typically associated with new devices of this type.

Let us help you maximize your budget dollars by upgrading your old technology to the lightweight and durable SYCLONE. Depending on the instrument version and detection requirements (gamma or gamma/neutron), the cost for this upgrade is less than one third of the cost of the new instruments.

The SYCLONE Gamma-Ray spectrometer utilizes the highest quality Thallium doped Sodium Iodide crystal, combined with an integral high signal to noise ratio PMT and state-of-the-art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable Gamma-Ray spectrometers when it comes to identifying specific and/or multiple isotopes even with weak gamma sources. The mechanical assembly of the SYCLONE is robust and designed for field applications where harsh environments are commonplace.

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RadEye SPRD

The detection and analysis of hidden radioactive nuclides requires a radiation identification tool with high sensitivity and accuracy. Detect, localize and identify Gamma sources with the pager-sized Thermo Scientific RadEye SPRD Spectroscopic Personal Radiation Detector.

The RadEye SPRD provides first responders and law enforcement teams like border guards or special forces with high performance detection and radionuclide analysis for any scenario. Metal recyclers and producers that need to detect, locate and identify orphan radionuclides in their incoming scrap material can now add an additional level of security, using the RadEye SPRD.

FHT 1377 GN-PackEye

The Thermo Scientific FHT 1377 GN-2 PackEye provides survey teams with a tool for effectively addressing the problems of orphaned sources, radiation contamination, and sources for malicious intent. By virtue of the proprietary NBR-technology (Natural Background Rejection) extremely low contributions of artificial gamma radiation are quickly detected, even with larger fluctuations of the natural gamma background radiation. The NBR measurement method has been developed by Thermo Fisher Scientific for extremely fast discrimination between natural and artificial gamma radiation.

Unlike conventional spectroscopic based gamma identification systems, the systems using NBR do not require the presence and resolution of gamma spectral peaks, and unlike Sodium Iodide detectors, NBR detectors are stable at varying temperatures and for many years of real field use, with no regular re-optimization or stabilization with sources required. Because of this flexibility, NBR can also definitively distinguish artificial high energy beta sources and heavily shielded gamma ray sources from fluctuating natural background sources. Thus alarm levels in the order of 1 μSv/h are achieved for SNM or heavily shielded industrial sources in outdoor environment. Such sources may be used in Radiation Dispersal Devices (RDD’s) known as “dirty bombs”. Artificial gamma radiation sources are identified in seconds by operators with basic training levels. Presence of artificial gamma radiation is simply indicated by a red flashing light and an audible alarm.

Contact Us for GSA and Quantity Pricing
**SpiR-ID**

The SPIR-ID is a rugged handheld device designed to efficiently search for radioactive materials and “on the fly” discriminate threats such as illicit trafficking and Radiological Dispersal Devices (RDDs).

It quickly and reliably identifies and categorizes radionuclide’s for demanding scenarios, including heavily shielded or masked threats due to a large volume detector associated with the Identpro/SIA algorithm specifically designed for homeland security.

Detection and Identification performance exceeds all ANSI N42.34 requirements. Rugged construction and simple routine user mode are ideally suited for field use in harsh environments. The SPIR-ID can be used for mobile surveys or for portal alarm assessment. It is ideally suited for military, civil defense, border & customs and generally all applications requiring efficient detection, search and identification of radiological threats.

**SpiR-ID LT**

The SpiR-ID LT (Light) is an advanced handheld device designed to efficiently search for radioactive materials and to “on the fly” threat discrimination, required for instruments against illicit trafficking and detecting Radiological Dispersal Devices (RDDs).

Detection and identification performance equals or exceeds all ANSI N42.34 and IEC 62327 requirements.

The SpiR-ID LT is very well suited for all applications that require efficient detection, search and identification of radiological threats, including civil defense, customs & border protection and emergency response situations. The SpiR-ID LT can be used as well for mobile surveys or for secondary screening.

**RIIDEye-X**

The Thermo Scientific RIIDeye™ detects and identifies radiation present in the environment and gives users feedback on where the radiation is, what type and how much. It is the only RIID with real time spectra build to allow users to optimize identification during the scan which leads to faster scans, more confidence that measurement was accurate and the ability to add scan time based on real time results.

The RIIDeye offers identification speed with high accuracy. Allowing more scans, faster results in situations where rapid decisions need to be made. With patented QCC technology, it provides real time gamma source identification and improved quality of isotopic IDs.

The RIIDeye is ergonomically engineered for single-grip operation and weight balanced for comfortable usage, even in long-term use scenarios. The RIIDeye is an intuitive instrument to operate. With a large, illuminated color interface and simple, raised button design, it can easily be used by personnel with little experience in radiation measurement - providing identification “at a glance.”

The RIIDeye from Thermo Scientific is an easy to use and very advanced handheld isotopic identifier. It provides precise, real time gamma source identification using the patented QCC technology. Effortless and uninterrupted operation is made possible due to a design that is ergonomic with the weight of the unit perfectly balanced at the mid point of the handle.

Training is easy allowing for swift and expeditious deployment of the RIIDeye by virtually anyone regardless of their level of experience or background in radiation detection and monitoring. The unique and advanced features of the RIIDeye can be quickly mastered to ensure fast, accurate measurements and reliable results. Immediate identifications are already displayed as color coded energy peaks in real time - while taking a spectrum – resulting in significant time savings in many critical situations.

**Rad-ID**

The Rad-ID™ offers public safety and federal agencies a highly accurate and reliable in-field tool to detect, identify and quickly classify radiological hazards as to exact isotope, dose rate and location of greatest concentration. Over 110 Medical, Industrial and SNM isotopes of significance are included in the extensive radiation library. Designed to be rugged and easy to operate, the Rad-ID can rapidly provide critical isotope identification for non-technical users and extensive analysis for highly trained personnel within minutes. An IrDA and a Bluetooth® wireless interface allows uploading of data via email / internet as well as downloading additional identification criteria to the search library if required.

The Rad-ID is now available in four variants including a standard gamma only, and enhanced gamma and gamma/neutron versions. The Rad-ID is still the best choice for easy and accurate gamma and neutron isotope identifications.

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**Ph (410) 465-5558 | Fax (410) 465-5257 | Sales@LaurusSystems.com**
**nanoRAIDER (identiFINDER R300)**

**FEATUERS**
- Available in two versions - Z (gamma) and ZH (gamma/neutron)
- Transreflective color display
- 24 hour battery life
- IP63 compliant enclosure protection
- Data storage for up to 600,000 identifications and spectra and over 1 million alarms
- ANSI N42.48 compliant
- Standard ANSI N42.42 data output format as preferred by triage teams as well as the government and scientific communities

When radiation detection capabilities are necessary, operators must rely on the accuracy and dependability of their instruments. With the highest detector resolution available in a pager-sized device, the identiFINDER R300™ virtually eliminates the false alarms and false positives that are so common to personal radiation detectors. With both detection and identification capabilities available in a single, rugged device, those on the front lines of homeland security can trust the R300 to make their job easier.

**BENEFITS**
- Designed and built to meet the most rugged field environments
- Easy to read display, even in bright sunlight
- High resolution in a small device
- Ease of use in high background environments
- Highly reliable, accurate results
- Small enough to be carried on a belt or in a pocket
- User interface almost identical to other FLIR radiation detectors, such as the identiFINDER®
- Virtually eliminates the false alarms and false positives inherent in other personal radiation detectors

About the same size as a cell phone, the belt wearable R300 provides continuous detection capability with visible, audible and tactile alerts. Once radiation has been detected, the fast identification capability of the instrument provides essential information to the user in the field, enabling them to make a next step determination. The One Touch Reachback™ feature integrated into the R300 allows the user to immediately send a notification to team members, superior officers, situation management personnel, and expert analysts – all with a single push of a button.

**MSpec G/GN**

The MSpec portable fast responding gamma and gamma/neutron spectrometer and dose rate meter will instantly measure any material for the presence of radioactivity whether it is general waste, medical waste, scrap metal or recycled material. Operation of the MSpec is completely automatic once the easy-to-set operational parameters have been selected. Simply position the unit in close proximity to the object that needs to be scanned and listen for the varying audio alarm to sound and/or the displayed readings to increase. The MSpec scans suspect material and quickly analyses to determine if and what radio-isotope is present then further categorizes the result as Medical, Industrial, or Natural Occurring Radioactive Material (NORM).

The user selectable readout on the instrument display will show the desired units of measure such as Counts per Second (CPS), Dose-Rate (Sv/h, R/h) or Accumulated Dose (SvR). The MSpec stores all results in a record which can be downloaded via USB into the user-friendly RadComm MSpec software for information archiving and further data manipulation and analysis. Reports can be saved in Adobe® PDF format and emailed via user’s PC. Remote service diagnostics and software updates of the MSpec are also achieved by utilizing the RadComm software.

**SpiR-Ident Mobile System**

**FEATURES**
- Very sensitive nuclear detection and real-time identification
- For mobile use: car, boat, helicopter or airplane
- Potential radiological threat search with Homeland Security algorithm
- After event contamination mapping
- Versatile configuration 1 to 4 detectors, 2 to 16 liters NaI(Tl)
- Rugged detection case and wireless tablet PC
- GPS and mapping function

This system especially allows to detect artificial gamma isotopes among varying natural isotopes when used as an airborne or vehicle borne system for the purpose of contamination evaluation and unattended source search.
HDS-101G/GN

The HDS-101G and HDS-101GN are portable devices designed to search for any radioactive materials and to respond to incidents involving Radiological Dispersal Devices. They feature the capability to identify the detected isotope and characterize its category from medical, industrial, naturally occurring radioactive materials (NORM) and special nuclear materials (SNM).

Because of their high sensitivity, they can be used to verify any alarm triggered by a fixed installed monitor or by a radiation pager, to locate sources and measure radiation levels, and even to identify the detected isotope. These products are ideally suited for first responders, border control, customs inspectors, site security in critical infrastructures, and for all missions related to the control of nuclear materials.

Algorithm processing-continuous spectra acquisition and stabilization (0.2s time slot), continuous dose rate and count rate comparison to background. Varying Background Suppression algorithm (VBS) continuously analyzes the spectra shape and rejects alerts due to sudden background changes. NORM Medical Discrimination algorithm (NMD) categorizes and identifies up to 4 simultaneous isotopes. Cumulated spectra can be triggered by alert detection or on request.

URSA II

Ideal for laboratory applications!

The URSA II, with a full-featured MCA program, can be used with practically any radiation detector and can extract any data your detector can supply! It has been designed taking into account comments and requests from our current URSA customers. URSA-II MCA, the all-new fully, quantitative Windows™ based URSA-II software package has been designed for ease of use in a 32-bit Windows™ environment. Software also includes URSA-II for PPC software to run the URSA-II using a Windows Mobile™ Device (iPod, iPAQ, TDS Recon, etc.) running Windows CE™ or Windows Mobile™. The Software can be installed on as many computers as you like, with no restrictions and includes free software updates.

Ph (410) 465-5558 | Fax (410) 465-5257 | Sales@LaurusSystems.com
GammaTRACER Spider

The autonomous GammaTRACER Spider gamma probe is specially designed to cover the needs of first responders in an emergency scenario. Based on the proven GammaTRACER design, the probe provides reliable measurement of the gamma dose rate and wireless data transmission to the crisis center by using SkyLINK/ShortLINK radio or Iridium satellite modem.

The compact design and innovative self-erecting enclosure facilitate deployment and minimize time, particularly important for emergency use and roll-out in contaminated area. The probe can simply be dropped out of a vehicle or pushed out through a lock or outlet. Thus, exposure to personnel can be significantly reduced. Alternatively deployment by a remote controlled drone or by parachute is possible.

Rad-DX

The Rad-DX operates on the new and exclusive D-Tect SensorNet; an automatic communication network that allows users to monitor a full network of Rad-DXs as long as they are in range of a single Rad-DX system (up to 1000 meters)! The Rad-DX units will automatically form an intelligent, self-healing mesh network, allowing them to be constantly connected to each other as well as to the user network.

Each Rad-DX can be controlled and monitored by a PC on the network or cross the internet on any Tablet or remote PC. 128-bit encryption protected. Monitoring can be real-time or past event logs can be reviewed.

Monitor all the Rad-DXs on a floor plan, within a facility or on wide area map. The display provides an intuitive understanding of the location of the devices and can track the motion of a radioactive source. Dose rates can be viewed in multiple graph formats. The Rad-DX is ideal for security and infrastructure protection applications – waste management – hospitals – industry – or any location where accurate, versatile and economical radiation monitoring is needed.

Rad-DX SafeGuard

The Rad-DX SafeGuard is a state-of-the-art radiation area monitor that provides real-time detection, data collection, and location of radiation threats across any area. It is a wireless mesh networked radiation detector with a sensitive scintillation detector which allows it to detect discreet sources of radiation in less than one second. SafeGuard incorporates the exclusive D-Tect SensorNet mesh network, an automatic communication network that allows users to monitor a full network of Rad-DX SafeGuard devices.

The Rad-DX SafeGuard system has the capacity to provide radiation readings from any remote location. The real-time threat assessment can be determined over a large area via wireless communications. The SafeGuard network can be established in a fixed or mobile mode, which can be configured and reconfigured, depending upon your detection objectives.

What is SensorNet Mesh Networking? It is the ability for all enabled units to communicate to one another while passing along data to a central depository. Whenever an enabled device comes in contact with another, or with the compact Mesh Relay module, the devices mesh together and act as transceivers and receivers and push the data to the DX View software.

Rad-Alert Area Monitor

The Radiation Alert Radiation Area Monitor uses state of the art touch screen technology and a streamlined design to create one of the most user friendly area monitors available. The user interface is an intelligent graphics display system featuring an integrated resistive touch screen, an easy to read five digit LED display, warning indicators for low and high radiation alarm levels, low battery, and instrument failure.

Calibration parameters are accessed by a safely recessed push button. A Calibration Settings screen displays a function menu that allows the user to set high voltage, threshold, dead time correction, network IP address, units of measure, USB and Ethernet communication, and calibration constant. The touch sensitive sliding scale makes adjustments simple. Parameters are stored in memory even when power is disconnected. Batteries provide up to 10 hours of backup power.

Contact Us for GSA and Quantity Pricing
The TPM-903B is designed for rapid screening of personnel in the event of a radiation release. It provides early warning of hot spots, i.e. on protective clothing, and has design features suited for monitoring radiation workers, vehicles or the public. The TPM-903B is lightweight and mobile to facilitate transport to its location, where it is easily installed within seconds. In use, the aperture accommodates walkers or wheelchairs, and can be adjusted to also accommodate vehicles. Users are first detected by the occupancy sensor which switches the detectors from updating the background into scan mode. The alarm is given if the counts exceed a predetermined level, if not, the green “ready/clear” light remains on. The passage time is typically 1 second and a Reliably Detected Activity (RDA) figure of 1 μCi in a 25 uR/h background.

With preset parameters, self-testing is complete in 2 seconds and background is acquired in 20 seconds. The TPM-903B is then operational. If parameters need adjustment, the LCD display prompts the operator for setup values which are entered via the password protected keypad. Alarm level, time and date, signal amplitude discrimination level, resetting of occupancy sensor and detector variance test are all adjustable.

The PM700 automatically scans pedestrian traffic without the need for frequent calibration. They are intended for applications where the relatively low energy emissions from 235U and 239Pu are the main concern. They are currently in use at uranium enrichment plants, weapons manufacturing plants, weapons storage sites, nuclear laboratories, nuclear waste disposal and storage sites where detection of Special Nuclear Materials (SNM) is essential.

The PM700 monitor is a stand-alone pedestrian radiation portal monitor (RPM) with excellent sensitivity and reliability. The PM700 large detectors and unique detection algorithm improve its performance to the point that it can achieve ASTM Standard C 1169 Category III* sensitivity for SNM. All of the essential components are contained in the pillars; radiation detectors, controller, and occupancy detector. The system operates from an internal battery. The battery is constantly charged from the site’s AC line during normal operation. In the event of a power outage, the battery permits continued operation for at least 12 hours. Selectable settings for sensitivity, energy discrimination, and fault levels may be entered by the administrator.
**Mini Rad-V**
Recognizing elevated radiation levels and detecting radioactive materials has never been easier. The ultra sensitive Mini Rad-V vehicle mounted radiation detector takes the proven performance and reliability of the Mini Rad-D and Rad-D technology to new levels for first responders and those concerned with discovering unwanted radioactive materials.

The Mini Rad-V will give the occupants of the vehicle an instantaneous alarm (< 1 second) when the radiological conditions minimally exceed normal background levels. Although the Mini Rad-V constantly calculates and updates the background conditions, the end-user does have the option of manually adjusting for higher than usual radiation environments.

Whether you are concerned with dirty bomb components, industrial accidents, or unknowingly adding radioactive materials to your normal payload, the Mini Rad-V will economically enable you to reduce your risks. Because it is permanently installed in the vehicle, if there is power from the battery, the Mini Rad-V is on the job.

**DRM-Area Monitors**

The DRM-1 is a compact area radiation monitoring system offering unparalleled features for stand-alone or wireless area monitoring. The DRM is a portable or fixed position device for monitoring of perimeters or boundaries and quickly identify changing radiological conditions. With enhanced sensitivity, the DRM-1D is ideal for radiological monitoring in medical facility emergency rooms, incident site decontamination tents, etc. The optional Display Unit allows the user to monitor the device from a remote location with visual and audible alarms. The versatility of the DRM provides for easy deployment on emergency response vehicles. The DRM can be configured for wireless (FHSS) transmission of radiological data or other communication process (air card, satellite, GPS, etc). It can be deployed and configured as a wireless radiological monitoring system in arenas, stadiums, convention centers, transportation hubs, etc.

The DRM-2 works essentially the same as the DRM-1. The difference being, it is an all-in-one area radiation monitoring system with display and alarm indicators in the same device. The DRM-2 offers unparalleled features for a stand-alone, TCP/IP networked (optional) or wireless area monitoring solutions.

**Rad-D Portal Monitor**

Fixed or Portable; At 17” Length and 5” around, the Rad-D is a versatile and highly sensitive radiation detector that can be integrated into an existing security system and be used to monitor: Points of entry; conveyor belts; on X-ray machines; or metal detectors.

Other devices need large, fixed areas and concrete footings to mount their systems and require traffic (vehicles or people) to be forced through a fixed inspection corridor. Due to its small footprint, the flow of vehicles or pedestrians is not affected. A Rad-D system can include up to 4 detectors operating simultaneously. The Rad-D is designed to integrate into existing networks, using serial communications or Bluetooth.

Two types of Rad-D detectors are available; Gamma, or Neutron. The standard unit searches for gamma and X-ray radiation and can be configured with or without collimated lead shielding. The neutron detector is an important tool to detect the transport of illicit nuclear weapons. The Rad-D is designed to be extremely easy to use. It provides the operator with a single digit read out of a “1” to a “9” to show the strength of the detected radiation. The Rad-D also shows the actual count of photons or neutrons and automatically calibrates itself to the natural background.

The RC99 is designed to provide an economical and extremely robust system for covert radiation monitoring of vehicles at a permanent control points or for security operations at special events. The sensitive and durable Polyvinyl Toluene (PVT) sensors are concealed in our specially designed housing allowing for inconspicuous monitoring of radioactive material or threats. Our unique configuration enables the end user to deploy the system quickly and easily in any environmental conditions.

As the vehicle slows and passes over the RC99, the sensor detects elevated levels of gamma radiation and instantly notifies the operator with an audible or visual alarm. The user can segregate the suspect vehicle, driver and passengers and move the response to the next level.

While the system is operated with a user friendly and rugged controller box, operated and monitored with a simple, user-friendly control box, a wireless configuration is available as an option to further ensure the covert nature of the RC99. With the wireless option, notifications can be made via text message or email when responding to the threat. Additionally, the RC99 can be configured to perform gamma spectroscopy to provide more detailed information.

**Contact Us for GSA and Quantity Pricing**
The RC2W34 Waste Radiation Detection System is a precise and innovative instrument specifically designed to detect radioactive material in a moving vehicle containing waste and scrap. The revolutionary design of the RC2W34 incorporates 20 years of engineering design and proven field application experience. The RC2W34 incorporates state-of-the-art components and software. The end-user will have a clear understanding of the RC2W34 operations without a background in computer science or physics.

RC2W34-2

AM-806

The Model AM-806 is a ruggedized, industrial grade monitor that can be utilized to detect radioactive material. The 806 utilizes 2 large area plastic scintillators totaling 360 cubic inches to detect the movement of gamma emitting isotopes passing through doorways, entrance gates or other similar openings. The instrument is durable and easy to operate with minimal training. Installation can be permanent or temporary. All of the data for the system is stored in a non-volatile memory, capable of maintaining the data for 10 years.

RC4138 RadLink

The RC4138 RadLink Radiation Detection System, is a finely-tuned, revolutionary, instrument that has been specifically designed to detect radioactivity contained in a moving vehicle and cargo. The revolutionary design of the RC4000 series incorporates more than 20 years of engineering design and proven field application experience. The RC4000 series system with its direct replacement for He-3 Neutron detector was recently tested by Oak Ridge National Laboratory for the ITRAP+10 (2013-2014) / ANSI N42.35 (2006) with excellent results.

RC4138-2

RC17 Watchdog

The RC17 WatchDog Radiation Detection System was designed specifically for the scrap and recycling industry to provide the absolute highest level of radioactive source detection in real-time for small to medium size weigh scale applications. RadComm Systems is a leading provider of innovative, radiation detection solutions for the Recycling industry. For more than 20 years, RadComm has been supplying the cutting edge and industry-leading radiation detection systems designed and developed exclusively for the metals and recycling industries. All of our advanced technology is based on real-world designs for real-world applications.

RC17-1

VM250 AG/AGN

The TSA Systems VM-250AG vehicle portal monitor consists of two self-contained, weather resistant pillars placed on either side of the roadway to be protected. Each pillar contains two organic plastic scintillator detectors, an occupancy detector, and an amplifier/controller. The master pillar also has a battery, power supply/battery charger, and an SC-770 system controller. The VM-250AGN adds neutron detection capability to the basic VM-250AG. Both are equipped with RS-232 and Ethernet communications capability. The VM-375AG system (not shown) is essentially a VM-250AG with a third pillar positioned horizontally between the two upright pillars. The third pillar can be mounted above or below the other pillars. The VM-375A provides improved sensitivity over the VM-250AG.

VM-250 AG-AGN

TM850

The TSA TM850 automatically screens railroad or vehicular traffic without the need for frequent calibration. High sensitivity allows the TM850 to be used at transportation hubs requiring a wider installation area and high throughput such as at ports and customs and border entry points. The TM850 is designed for use in harsh environmental conditions.
AlphaE Personal Radon Monitor

The AlphaE is an ultra-small continuous radon monitor for fast and time-resolved radon monitoring in buildings, outdoor as well as in mines. Typ. 80 % of the final result is achieved after 2 hrs (faster response for higher values). Due to the light-weight and small dimensions it can also perfectly be used to measure the personal radon exposure and to manage personal dose. Based on a silicon diode diffusion chamber the sensitivity is 3 cph at 100 Bq/m³ (2.7 pCi/l). Thus, also low radon levels below 100 Bq/m³ (2.7 pCi/l) can be measured as specified by the latest WHO recommendations (12 % uncertainty at 1 sigma/24 hrs.). The calculation of dose is possible due to a user-settable equilibrium factor.

AlphaGUARD

AlphaGUARD is a portable, battery- or net-operated radon monitor with high storage capacity. AlphaGUARD incorporates a pulse-counting ionization chamber (alpha spectroscopy). Through optimal geometry of the chamber and intelligent signal evaluation this radon monitor is suitable for continuous monitoring of radon concentrations between 2 – 2 000 000 Bq/m³. AlphaGUARD offers high detection efficiency, a wide measurement range, fast response and permanent, maintenance-free operation with long-term stable calibration. No pump is required when operating in diffusion mode (e.g. long-term monitoring) and the instrument is insensitive to both, high humidity and vibrations.

BM185/285 Waste Monitors

The TSA BM185/285 waste monitors are designed to screen small and medium-sized items for radioactive emissions and is ideal for monitoring prior to release from the facility. With an efficient and accurate go/no go analysis and typical scan times of one to three minutes, the waste monitor allows for cost effective waste management.

The waste monitors high sensitivity and uniform measurement is achieved by using large volume plastic scintillator detectors on all six sides of the counting chamber for effective and accurate screening of all sides of the item. The load platform, containing the weight monitoring load cells, is mounted on sliding runners to facilitate easier loading of heavy samples. With the ability for an administrator to define screening parameters, customizing the waste monitors for specific radioactive isotopes or ‘waste streams’ is possible. The operator selects the proper waste stream from an annotated list for each item to be scanned, making the waste monitors flexible when screening for multiple contaminants.

The BM185/285 comes standard with a stainless steel liner that protects the detectors and allows for easy cleaning if contaminated. An optional aluminum liner is available if greater sensitivity is required. With the optional sodium iodide detector, spectral isotopic identification to fit specific detection requirements is possible.

GammaTRACER

The GammaTRACER is designed for continuous measuring, recording and optionally transmitting the environmental gamma dose rate – more than 3 000 probes in worldwide use. The hermetically sealed probe, including the GM detectors as well as all electronic components, operates completely autonomously and is independent of any physical connections, thus resisting extreme climatic and environmental conditions. Energy-saving chip technology allows maintenance-free non-stop operation of the GammaTRACER probe of typically five years, optionally up to ten years!

The time resolved measurement values are stored together with the auxiliary and QA parameters (built-in storage up to 12.800 data sets). Data download and parameterization can be performed via an interactive infrared or cable port. DataEXPERT, a professional user friendly database, communication- and analyzing software guarantees both, a simple and safe access to the stored data as well as their powerful visualization and fast, precise analysis. Via WebVIEW data can be accessed and configured via any standard browser.

Offering easy installation, fast relocation and long autonomy, GammaTRACER, enhances new approaches in environmental monitoring for routine as well as for emergency management. Additional interface possibilities for online and real-time data transmission, ranging from wired modules (RS232, RS485) to sophisticated wireless transmitters (SkyLINK, ShortLINK) fulfill a wide variety of user needs.

Contact Us for GSA and Quantity Pricing
RC Series Radiation Monitors

Prevent costly radioactive contamination of your scrap yard, equipment, plant, product and personnel with the RC4000 vehicle radiation detection system. The state-of-the-art design of the RC4000 incorporates 14 years of engineering and field application experience, and has provided the metals industry with the highest safety record to-date.

The RC4000 Series of radiation detection systems have been specifically designed to detect radioactive materials contained in a moving vehicle loaded with scrap material. The system design is modular, flexible and customizable, offering multiple detector configurations to meet site specific applications. The RC4000 incorporates only the highest quality of components and software/hardware technology available today.

The system menus are based on a Windows environment allowing a clear and precise understanding of the RC4000 operations without the requirement of having a background in physics. The software is extremely flexible, with touch-screen navigation that allows the user to configure general operations such as; setting passwords, adjusting detector parameters, pinpointing the location of a radioactive source when detected in a vehicle, storing and the retrieval of all vehicle information.

The RC4000 can be controlled and monitored from virtually anywhere in the world, in real-time. Supervisory administration has full control of system access with password control features. The system is both network and intranet ready, with secured digital wireless and/or high-speed telephone network capabilities. All scans are stored in both graphic and text modes with full data-logging and central alarm storage viewing capabilities.

RadComm engineers have developed proprietary technology that not only tracks the pulse count rates from the PVT scintillator but applies a special characterization analysis on each pulse. The key benefit of this “characterization” is the knowledge that specific isotopes will produce predictable results.

Characterization is used to eliminate any major fluctuations caused by varying densities in loads of scrap metal, along with any atmospheric changes that might affect a reading. This technique is similar to what is utilized in gamma ray spectroscopy where a sodium iodide scintillator is used. Characterization is a signal processing technique that focuses on real-time system noise cancellation, correction of ambient background variations and maintaining extremely accurate alarm threshold settings, all resulting in higher radiation detection sensitivity and the fewest false alarms.

State of the art software allows for full workability, global control and reach back, the most sophisticated algorithms in the industry.
**CRICKET Grapple System**

The exclusive RadComm CRICKET radiation detection system fits any grapple, in any application. It has been designed specifically to meet the needs of the scrap, steel, and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems have never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of the detector size.

Get closer, scan longer. Mounting the CRICKET in the grapple allows direct exposure to all the material being handled. There are three different opportunities to measure all scrap material during the handling process. Because the system scans on a continuous basis, material is scanned on the surface before the grab even picks up the load. Secondly, the grapple load is scanned for up to 10 seconds while in the grapple. Finally, the material is scanned as it falls from the grapple. These three scanning conditions allow the CRICKET to provide a high degree of detection capability for low level radioactive material. In addition, the CRICKET's robust design provides greater impact-resistance than any manufactured grapple.

**CRICKET Magnet System**

Find radioactive sources that other radiation detection systems miss! CRICKET is the world’s leading, most rugged, highly sensitive radiation detection magnet mounted system on the market! The CRICKET radiation detection system is designed specifically to meet the needs of the scrap, steel, and waste industries. The CRICKET’s revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems have never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of the detector size.

Get closer, scan longer, with more accuracy. Mounting the CRICKET in a magnet application allows direct exposure to all the material being handled. There are two different opportunities to analyze all the scrap material during the handling process. Firstly, the CRICKET system can scan on a manual basis, material may be scanned on the surface before the load is even picked up. Secondly, once the magnet is energized the load is scanned while in the magnet allowing for the highest level of sensitivity.

**RC-2 Handheld Detector**

The RC2 portable radiation detector has been designed to detect very low radiation intensity levels from radioactive materials buried in scrap metal. The RC2 is an extremely effective handheld detector that utilizes a large 32 cu. in. (0.54L) internal PVT plastic scintillation detector, a common material found in most larger vehicle monitoring systems.

Operation of the RC2 is fully automatic and designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive materials, or to verify or separate radioactive materials that have triggered an alarm on large scale radiation detection systems. The RC2 contains a state-of-the-art microprocessor and internal electric circuitry designed to automatically set the lowest achievable alarm level and to continuously monitor system operation in order to maintain consistent optimum performance.

In the event that radiation is detected, a varying audio tone will activate to help locate the source of the radiation. In addition, the display will show an increasing count/second (cps) numeric radiation level. The RC2 is equipped with an internal rechargeable battery pack that eliminates the need for stocking and changing conventional batteries.

**RC-22/23 Wand**

Pinpoint a radioactive source quickly and safely with the RC22 or RC23 Wand.

- Fully automatic and easy to use
- Light weight
- Extendible for longer reach
- Easy to read backlit display
- Quick response time with variable alarm tone
- Fully Automatic and Operator Friendly

The RC22 and RC23 were designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive materials. Upon start up the unit will perform a background check and automatically set an alarm threshold for the user. In only seconds the RC22 and RC23 is ready for use. Easy to Read Display with Audible Alarm—When radiation is detected the display will immediately show the increasing radiation levels. An audio alarm will also be activated to help locate the exact source of the radiation. The tone varies based upon the proximity and intensity of the radioactive source.
**RC 1069 Manually Operated System**

The **RC1069** is a dual detector configuration that is mounted at vehicle weigh scales. The **RC1069** is extremely flexible when it comes to detector configurations. The line of detector sizes can be made to fit virtually any application whether it be a feeder yard large or small vehicle scales to a conveyor in feed/ downstream to a small non-ferrous sorting area.

In order to provide reliable and rugged state-of-the-art detectors suitable for any hostile environment, RadComm uses nothing but lab-quality components, such as premium grade PVT and components using low noise design technology.

**SYCLONE**

The SYCLONE Gamma-Ray spectrometer utilizes the highest quality Thallium doped Sodium Iodide crystal, combined with an integral high signal to noise ratio PMT and state-of-the-art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable Gamma-Ray spectrometers when it comes to identifying specific and/or multiple isotopes even with weak gamma sources. The mechanical assembly of the SYCLONE is robust and designed for field applications where harsh environments are commonplace.

**Simplified and Flexible -** The SYCLONE operating system utilizes sensible easy to read and follow Menus. The multi-position joystick and large LCD backlit display provides easy navigation through menu selections. Detailed spectral information is clearly and precisely displayed so that even users without special nuclear training can easily see scan results. Various on-screen messages assist the user when immediate attention is required for issues such as preset timing, high radiation levels, alarm settings and warning messages.

Remote SYCLONE PC Spectral Analysis and Data Storage Software- The SYCLONE is equipped with a large internal memory that allows large amounts of data to be stored by record number, date and time. Stored data such as spectral and dose rate information can be easily downloaded to a PC via a serial RS232, mini USB or Bluetooth. The SYCLONE PC software has all the necessary features that will meet the needs of virtually any user.

**RC750 WatchDog**

The **RC750 WatchDog** Radiation Detection System was designed specifically for the scrap and recycling industry to provide the absolute highest level of radioactive source detection in real-time for small to medium size weigh scale applications. RadComm Systems is a leading provider of innovative, radiation detection solutions for the Recycling industry. For more than 20 years, RadComm has been supplying the cutting edge and industry-leading radiation detection systems designed and developed exclusively for the metals and recycling industries. All of our advanced technology is based on real-world designs for real-world applications.

RadComm is uniquely positioned to provide the Scrap Industry with a new and innovative radiation monitoring solution for low level radioactivity for small weigh scale applications. The design of the **RC750** addresses all the challenges associated with monitoring small and medium volumes of material as it is being weighed in and out on the weigh scale.

**MSpec G/GN**

The **MSpec** portable fast responding gamma and gamma/neutron spectrometer and dose rate meter will instantly measure any material for the presence of radioactivity whether it is general waste, medical waste, scrap metal or recycled material. Operation of the **MSpec** is completely automatic once the easy-to-set operational parameters have been selected. Simply position the unit in close proximity to the object that needs to be scanned and listen for the varying audio alarm to sound and/or the displayed readings to increase. The **MSpec** scans suspect material and quickly analyses to determine if and what radio-isotope is present then further categorizes the result as Medical, Industrial, or Natural Occurring Radioactive Material (NORM).

**Mini Rad-D**

The **Mini Rad-D** is a highly portable, rugged, all-weather radiation detector that’s small enough to wear on a belt yet powerful enough to quickly locate low-level radioactive sources, even in a container of material. Designed to discreetly monitor in any environment with very little training required, the **Mini Rad-D** can be set to notify the user by vibration or audible alarm whenever gamma radiation exceeds natural background levels. The mini’s simple operation and highly readable display provide an automatically updated strength indicator in under 1 second, allowing a rapid area sweep to identify the exact location of any radiation source.

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**Ph (410) 465-5558 | Fax (410) 465-5257 | Sales@LaurusSystems.com**
The RADēCO™ Model H-810 DMDC is a dependable, lightweight high volume air sampler which incorporates the reliability of the Model H-809V with an Air Volume Totalizer. This microprocessor based unit is designed to eliminate the use of rotometers and mechanical time meters, simplifying air sampling procedures, while adding significantly higher accuracy to air sampling data. The Air Volume Totalizer portion of the sampler is composed of an enclosed air-turbine which rotates at speeds proportional to the air velocity of the sampled air. The turbine’s rotation is sensed by a reflective sensor/breaker disk. The microprocessor converts the signal to volume and displays the flow rate, total volume, and elapsed time on the LCD readout.

The RADēCO™ Model H-810 (Defense Model) is a ruggedized version of the popular H-810AC. The H-810DM is designed to meet a variety of military standards and for use in extreme environments. This microprocessor based unit has our unique aluminum Tough Screen. The Tough Screen has no moving parts or buttons and operates like a touch screen phone only made of 1/4 inch thick aluminum with a polycarbonate display window. External upgrades to the unit include the upgraded keypad, power cord clamp, mil-spc paint, and the case has an internal support structure to prevent denting if dropped. The display and microprocessor have been upgraded to operate in extreme sub-zero temperatures.

Like its predecessor, the H-810DM displays current flow rate, sample time and total volume. The unit can be programmed to take samples based on the user’s established procedures. The functions/parameters established during calibration may be locked in using the keypad security. When the keypad security is on, all keys on the keypad are disabled with the exception of the START/STOP and UNITS keys. The UNITS key will toggle the LCD display from CFM to LPM.

The RADēCO™ Model H-810BL (Brushless) is a ruggedized, maintenance free and continuous version of the popular H-810AC. The H-810BL is designed to meet a variety of military standards and for use in extreme environments. This microprocessor based unit has our unique aluminum Tough Screen. The Tough Screen has no moving parts or buttons and operates like a touch screen phone only made of 1/4 inch thick aluminum with a polycarbonate display window. External upgrades to the unit include the upgraded keypad, power cord clamp, mil-spec paint, and the case has an internal support structure to prevent denting if dropped. The display and microprocessor have been upgraded to operate in extreme sub zero temperatures.

The model HD-29A and HD-66A are mobile “K-Flow” constant flow air samplers designed for use in nuclear power plants, research laboratories, production areas, and throughout industrial facilities where the collection of precise air samples is required on a continuous or semi-continuous basis. The heavy duty vacuum pump and constant air flow regulator combination permits the collection of an air particulate sample at a constant flow rate until the ΔP across the filter paper exceeds the capability of the pump at that flow rate.

The controlled flow rate is observed on the handle-mounted rotometer and is adjustable from 1.0 to 7.0 CFM. The HD-66A can be used with all 25mm, 37mm, 47mm and 2 inch diameter filters and charcoal cartridges used for the collection of airborne contaminants. An internal air filtering system has been installed between the regulator valve and the pump to prevent particulates from reaching the self-adjusting carbon vanes and causing excess wear. A re-settable elapsed time meter is mounted on the instrument panel. By setting this timer to zero at the start of each sample period, an accurate sample volume may be readily calculated.
**H-811ACDC**

The RADēCO Model H-811ACDC is a dependable, lightweight high volume air sampler which can operate off 12 or 24VDC as well as 120 VAC. This microprocessor based high volume air sampler will operate virtually anywhere. The unit has a slip connector for powering off a car battery or a RADēCO RAD1224 Battery Pack as well as a removable AC power cord for when line power is available. In 2006 we upgraded the microprocessor of the industry favorite H-810 to allow three independently programmable calibrations as well as altitude correction factors. This one unit can replace up to 6 air samplers. The Air Volume Totalizer portion of the sampler is composed of an enclosed air-turbine which rotates at speeds proportional to the air velocity of the sampled air. The turbine’s rotation is sensed by a reflective sensor/breaker disk. The microprocessor converts the signal to volume and displays the flow rate, total volume, and elapsed time on the LCD readout.

**AVS-20T**

The AVS-20T is a light weight digital constant flow air sampler. We have taken the industry workhorse AVS-28A, and reduced the footprint, and weight while adding a totalizer. The heavier pumps used in traditional constant flow air samplers like the AVS-28A, HD-29A and HD-28A are far heavier than is necessary. The range of flow for those models is 20-100 LPM (0.5-3.5 CFM). The overwhelming majority of plants and REMP programs only sample at around half that flow rate. Meaning they are lugging around extra weight and capability that they are NOT using or need.

**AVS-28A**

The Model AVS-28A Portable Constant Flow Air Sampler is a continuous duty, constant flow device. It can be used with filters and cartridges in the collection of airborne contaminants, or as a regulated, positive displacement vacuum supply for continuous air monitors and stack sampling systems. The ability of the AVS-28A to maintain a preset sample flow rate is controlled by the unique side-mounted regulator valve. The RADēCO regulator valve is not a bypass design, and therefore the exhaust contains only sampled air. The AVS-28A has the superior ability to compensate for added P across sampling media. The sampling flow rate is read out on a side-mounted rotometer which measures the differential pressure across the in-line anodized aluminum venturi. All units are individually calibrated and traceable to NIST.

**H-809-V**

The Model H-809V is a lightweight rugged grab sampler designed specifically for heavy duty industrial applications sampling airborne particulates or combination particulates and radioiodine. The Model H-809V may be used with RADēCO sample holders that house selected filter discs and high quality RADēCO radioiodine cartridges. The unit may be re-calibrated using one of the RADēCO NIST traceable Air Flow Calibrators (sold separately) to give the user a fully qualified air sampling system.

The H-809V has a small, sintered metal exhaust diffuser and is normally used with combination filter and cartridge holders (typical flow range from 1-8 CFM). The H-809VII has a large diffuser and is normally used with 4” diameter filter holders (typical flow range from 1-30 CFM). Standard features of the H-809 series include a spring-loaded face guard which protects the switch, fuse, and flow adjust knob and a top mounted eye bolt with carrying strap.

**Calibrators: C-812, C-828, C-8528; D-812, D-828, D-8528**

RADēCO Air Flow Calibrators are the most durable and repeatable calibration devices available. The RADēCO calibrators are constructed of a precision machined aluminum venturi tube. The C-Series (analog) employs an appropriately ranged manehelic gauge while the D-Series uses an appropriately ranged intelligent digital meter, both mounted in rugged steel cases.

Simple, cost effective and consistently accurate year after year. RADēCO Air Flow Calibrators are available calibrated in cubic feet per minute or in liters per minute. Each calibrator is individually calibrated to an air flow instrumentation system whose calibration is certified and traceable to the National Institute of Standards and Technology (NIST). The RADēCO Air Flow Calibrators are guaranteed to an accuracy of better than +5%, referenced to 29.92 inches of mercury and 70°F. A Certificate of Calibration is supplied with each calibrator.
In 2003 RADêCO was selected by the United States Air Force as their supplier of Emergency Response air sampling equipment. Since then, RADêCO has provided the USAF with over 500 complete air sampling kits, composed of calibrators, filter media, sample holders and air samplers. These kits have been distributed to Air Force bases around the globe and we continue to support and supply the USAF with quality service and equipment.

**USAF Complete Air Sampling Kit** - Part No. AS Kit_USAF SC
- H-809VII - High Volume Air Sampler
- 2500-25 (2500-25A) - 4" Diameter Filter Holder
- 0750-49 - Filter Paper, Retention Efficiency 99.99% for 0.3 micron particles
- TRP-2 Tripod for use with the H-809VII with applicable adaptor
- Soft Case Air Sampling Kit Model SC-1

**Calibration Equipment** - Part No. D-8528Kit
- D-8528 - Digital Air Flow Calibrator
- 2500-43 - Calibration Adaptor
- * One adaptor per calibration setup

**Air Force Kit Soft Case**
Unlike the heavy and cumbersome Pelican Case, the SC-1 Transport Case was specifically designed for use with the USAF Air Sampling Kit. The SC-1 allows responders to store their air sampler attached to the TRP-2 Tripod, enabling responders to vastly improve their response time. There are also internal pockets for storage of the 2500-25A filter holder and 0750-49 filter paper.

**Filter Papers - HD-2061 & LB-5211**
HD-2061 This filter paper combines good aerosol filtration efficiency with slightly higher porosity than LB-5211 Laminated glass filter paper. These products are high efficiency multi-purpose filter materials with good heat resistance. They are particularly recommended for both gas and liquid filtration in the medical field and for air monitoring applications. The base material consists of micro glass borosilicate fibers with low amounts of acrylic resin, the composition of which corresponds to the description listed in DFR Title 21, Part 177.2260, Filter, Resin Bonded.

**210B - Weather House**
The RADêCO Model 210B Weather House is a heavy duty, all aluminum weather house with features especially desirable in a weather protected air sampling station. The Model 210B not only has two sets of louvers on each of four sides so that air may enter the weather house from any direction, but each set of louvers is uniquely counter-louvered to prevent rain or snow from blowing onto the instrumentation in the weather house. Each end also has upper louvers to prevent heat build-up under the roof.

To permit ease of installation, an electrical box is firmly mounted inside on one wall in the upper part of the house. Electrical conduit from the bottom of the house to the electrical box requires only wire installation and the wiring of the box. A standard light socket is provided so that a "heat lamp" may be installed by the user for extremely cold weather usage.

**Tripod Model TRP-2**
The TRP-2 is a survey style Tripod which provides telescoping legs for varying sampling heights. The feet are rugged steel with sharp point for a solid gripping on a variety of surfaces. Constructed of lightweight Aluminum for ease-of portability with a solid cast aluminum head for years of reliability.

The TRP-2 works with either the H-809 Series or the H-810 series of High Volume Grab Samplers. When ordering please specify which unit it will be used so the appropriate adapter plate/block can be provided. Constructed of lightweight Aluminum for ease-of portability with a solid cast aluminum head for years of reliability.

**Contact Us for GSA and Quantity Pricing**
RAD-Pro 10  The RADeCO RAD-Pro 10 is an industry leader in back-pressure performance, reliability and ease-of-use. This pump offers flow rates up to 10 LPM respectively. And thanks to several advanced features, this pump overcomes the main causes of sampling errors – saving you time and money. The air flow display holds calibration for 30 days, even with atmospheric changes. While RADeCO air sampling pumps are known for their strength, the back-pressure capabilities of the RAD-Pro 10 are the highest in the industry for any personal sampling pump. With the RAD-Pro 10 there is less risk of lost samples due to battery failure. It incorporates a nickel-metal hydride (NiMH) battery which, unlike a NiCad battery, doesn’t suffer from “memory” problems. So there’s no hidden loss of battery capacity, no shorter-than-expected run time and no need for special battery maintenance. You use our standard charger and get the same, highly predictable life, charge after charge. When the display indicates a “full” battery, that’s exactly what the pump delivers. Plus, the indicator more accurately displays remaining life throughout the sampling period. You get faster charging too. The NiMH battery fully charges in just five hours. And you won’t be hampered with special storage or disposal requirements, since the NiMH battery is friendly to the environment.

TRU-DAC  The TRU-DAC Personal Air Sampler determines the inhalation dose obtained from the exposure to long living Alpha and Beta nuclides (LLRD) in the breathing air. The aerosols will be accumulated on the surface of a membrane filter by an internal pump. The collected activity is analyzed by a semiconductor detector with subsequent Alpha spectroscopy and Beta gross counting. The influence of natural occurring Radon daughters is fully compensated. An accurate determination of the obtained dose without any additional equipment is possible by a special filter analysis mode. The small filter paper (17.5 mm diameter) can be used for preservation of evidence.

The lightweight (less than 1 lb) instrument can be worn on the body without impairment of mobility. Sampling head, battery and electronics have been integrated into rugged metal enclosure of the size of a mobile phone. Therefore, no additional cables and hoses are required.

Dangerous doses will be detected within 60 Seconds and signalized by an acoustical and an optical alert. The display, equipped with a bright back-light shows the recent dose values (μSv or mrem) as well as the over all count rates. The internal rechargeable battery allows approx. 24 hours of autonomous operation – it takes only one hour to recharge the battery.

RAD-Pro 5  The RADeCO RAD-Pro 5 is an industry leader in back-pressure performance, reliability and ease-of-use. This pump offers flow rates up to 5 LPM respectively. And thanks to several advanced features, this pump overcomes the main causes of sampling errors – saving you time and money. The air flow display holds calibration for 30 days, even with atmospheric changes. While RADeCO air sampling pumps are known for their strength, the back-pressure capabilities of the RAD-Pro 5 are the highest in the industry for any personal sampling pump. With the RAD-Pro 5 there is less risk of lost samples due to battery failure. It incorporates a nickel-metal hydride (NiMH) battery which, unlike a NiCad battery, doesn't suffer from "memory" problems. So there's no hidden loss of battery capacity, no shorter-than-expected run time and no need for special battery maintenance. You use our standard charger and get the same, highly predictable life, charge after charge.

TRU-DAC-Pro  The TRU-DAC Pro Personal Alarming Alpha/Beta CAM, combines a very compact design with a high flow rate and long battery life. The unit measures long life Alpha and Beta emitting aerosols as well as Radon daughters by alpha spectroscopy and beta counting. A bright alpha numeric display and the clear keypad allow the operation even under harsh conditions. The integrated powerful charger recharges the unit within two hours. The aerosols will be accumulated on the surface of a membrane filter by an internal pump. The collected activity is analyzed by a semiconductor detector with subsequent Alpha spectroscopy and Beta gross counting. For first responders, an optional wireless interface (Net Monitors by ZigBee) allows the officer-in-charge to receive the data online from the action forces. The instrument can be ordered also with a GPS receiver.
RADēCO™ has available the finest line of precision machined, all aluminum, holders for air sampling media. There are four different types of holders: (1) Open Face Filter Holder, (2) Inline Filter Holder, (3) Open Face Combination Filter and Cartridge Holder, and (4) Inline Combination Filter and Cartridge Holder. All four types are available for the RADēCO H809, H810, HD and AVS series of air samplers as well as for other manufacturers models.

RADēCO pioneered the unique two O-ring method of preventing the sampling air from bypassing the cartridge in the combination holder. This method of sealing the cartridge in the lower body eliminated gasket creep and wrinkling which caused leakage past the cartridge. All 47 mm, 2 inch and 4 inch holders are hard anodized to give the sample holders good chemical resistance to prevent oxidation and to color code the various parts. The main body of each holder is colored blue, while the filter retainer nuts and the cartridge retainers are colored gold for 47 mm, black for 2 inch, and blue for 4 inch.

Open Face Filter and Open Face Combination Holders for the HD & AVS series are supplied with a mating 3/8 inch male quick disconnect fitting which will snap directly into the inlet of the samplers. All inline type holders are furnished with a 3/8 inch male quick disconnect at both the inlet and outlet of the holder.

When ordering, please specify the type of holder desired, the diameter of the filter to be used, and in the case of a combination holder, the type of charcoal or silver zeolite cartridge (RADēCO or Scott) to be used in the holder.
LAURUS WMD & Environmental Kits
The Original Radiation Response Kits

- 3-8 Person Kits
- Laboratory Kits
- GO Kits
- PRD Kit
- ERK Kit
- LAURUS EOD Kit

Kit's May Include:
- Dosimeters for Personal protection
  ◦ Alarming dosimeter
  ◦ Pocket ion chamber
  ◦ Dosimeter holders
- Personal Radiation Detector/s (PRD)
- Survey meters for dose rates/contamination
- Radiological air samplers for airborne threats
- Training Guides
  ◦ Written manuals
  ◦ Interactive training CD Rom’s
- Check Sources
- Pelican Cases

Custom Kits
The first step in providing protection for risk and vulnerability is to be able to immediately detect and respond to any potential radiological threat. LAURUS Systems provides a wide variety of specialized response kits designed to detect, identify, and analyze a radiological and/or nuclear threat. Since not all responding organizations face the same threat levels, or are responsible for the same degree of response, LAURUS Systems designs kits that address the specific needs of the end-user. We can assemble kits with any number of options from the products shown here, but we are certainly limited to these configurations. Many other options are available by request.
The mobile Thermo Scientific Gamma Laboratory Kit allows immediate, local response to emerging food monitoring requirements for known contamination scenarios.

The portable Thermo Scientific Highly Sensitive Laboratory Kit supports the laboratory and also field measurement program for contamination resulting from a nuclear accident. The Highly Sensitive Laboratory Kit combines a 1.0 l Marinelli beaker with the 2x2" NaI(Tl) probe model SPA-3. Data evaluation and display is performed by the low power RadEye SX multipurpose meter. This combination allows low limits of detection within short measurement time.

LAURUS RadEye kits can include RadEye PRD’s, B-20’s, RadEye SX, probes, laboratory accessories and consumables. All configured in a rugged pelican/Storm case!

The CsI (Tl) crystal used in Radiation Alert® Probes has a higher atomic number, is more rugged, and less hygroscopic than a typical NaI detector. The improved gamma ray absorption allows a thinner crystal to be used, effectively reducing the background count rate. Thin-crystal (1 mm) optimizes sensitivity to low energy gamma radiation while minimizing sensitivity to higher energies. An excellent detector for Iodine-125 and suitable for thyroid uptake measurements.

URSA II, with a full-featured MCA program, can be used with practically any radiation detector and can extract any data your detector can supply! It has been designed taking into account comments and requests from our current URSA customers. URSA-II MCA, the all-new fully, quantitative Windows™ based URSA-II software package has been designed for ease of use in a 32-bit Windows™ environment. The Software can be installed on as many computers as you like, with no restrictions and includes free software updates.

The RadEye HEC is a sample counting system that provides simultaneous alpha and beta measurements. The system incorporates a 2” (5 cm) dual scintillation phosphor mated to a sliding drawer accommodating a 2” (5 cm) diameter sample. Using a height-adjustable sampling area the drawer permits the use of different sample types and must slide fully to the rear to initiate the counting.
Griffin G400 Series
The FLIR Griffin G400-series GC/MS (Gas Chromatograph / Mass Spectrometer) products provide lab-quality chemical identification in a field-ready package. Each Griffin GC/MS model is equipped with a rugged, internal shock isolation system that is tested to rigorous MIL-STD-810G standards. They are built to operate in mobile labs, reconnaissance vehicles, deployable lab containers, and other portable platforms. Hassle-free, interchangeable sampling tools differentiate each GC/MS model. Every Griffin 400-series GC/MS contains an industry standard injector port.

The FLIR Griffin™ G460 GC/MS (Gas Chromatograph / Mass Spectrometer) provides lab-quality chemical identification in a field-ready package. Unlike other transportable GC/MS systems, the Griffin G460 contains an integrated standard liquid injector and integrated thermal desorber. This means it is ready at all times to accept both liquid and vapor samples. It also means operators only need to transport one piece of equipment to the site of action. The Griffin G460 system provides ultimate sampling flexibility while improving response times over standalone thermal desorbers.

Griffin G400 Series
- Griffin™ 824 is a desktop mass spectrometer designed specifically for explosives and narcotics trace detection. Mass Spectrometry (MS) is a widely trusted technique used for definitive chemical analysis. Its inherent ability to provide selective chemical identification in complex operational environments is unmatched by existing Ion Mobility Spectrometry (IMS) technology.

Today’s high consequence applications require high confidence results that only mass spectrometry can provide. The Griffin 824 mass spectrometer offers ease of adoption across a broad range of existing and emerging trace detection applications. Selectable detection modes allow customers to tailor the system to their operations using explosives only, narcotics only, or explosives-narcotics simultaneous mode.

Fido X-80
The Fido X-80 (Griffin 844) is a desktop trace detector that is used to screen personal belongings, parcels, cargo, skin, vehicles, and other surfaces for explosives and narcotics threats. It delivers a significantly lower false alarm rate than other offerings, offers expandability to address future threats without impacting sensitivity, and ensures fast and reliable clear-down to maximize availability.

Built around FLIR’s mass spectrometry (MS) technology, the Fido X-80 provides much higher resolution compared to existing ion mobility spectrometry (IMS) technology, resulting in improved chemical selectivity. As a result, the X-80 yields significantly lower false alarm rates, providing confidence to security officers that only true threats are detected. FLIR’s expandable library allows new threats to be added to the library without impacting sensitivity or false alarm rates. Updates to the library are offered as they become available, providing customers with a future-proof solution that addresses emerging threats.

GSA

X-Sorber
Collecting and analyzing air samples is easy with the Griffin X-Sorber. Sample collection starts via a single button command. Users can hand-carry the X-Sorber while sampling, utilize the clip accessory for hands-free operation in the field, or employ the “leave and retrieve” technique.

The X-Sorber is extremely portable allowing users to expand their operational area. Sample collection is made possible in remote locations where the terrain proves too difficult for navigation with a vehicle or impossible to reach on foot when transporting heavier equipment. Because the X-Sorber provides a plug and play connection with the Universal Sampling Port (USP), no special sample preparation steps are required.

BENEFITS
- High confidence alarms using mass spectrometry
- Consistent results in complex operational environments
- Selectable detection modes to fit high-consequence customer applications
- Rapid analysis times that meet industry standards
- Simplified color touch screen interface allows for quick user commands
- Built-in printer and internal data storage
- Maximizes system operational time with limited maintenance requirements
- Rapid clear down (seconds to minutes) after alarm

Ph (410) 465-5558 | Fax (410) 465-5257 | Sales@LaurusSystems.com
The **Fido X2** is an ultra-lightweight, handheld explosives trace detector (ETD). It features FLIR’s proprietary TrueTrace™ technology to detect a broad range of chemicals used in the manufacture of homemade, commercial, and military explosives with best-in-class sensitivity. On-screen prompts guide users quickly through operation.

At less than 1.5 pounds and featuring a durable, ergonomic design, the Fido X2 offers maximum portability. Intended to be used at security checkpoints or during periods of high alert, Fido X2 screens vehicles and personal belongings for explosives residue that might indicate contact with explosives or incendiary devices. With analysis provided in ten seconds or less, law enforcement officers can quickly and accurately screen for threats to mass transit, sporting arenas, and critical infrastructure with confidence.

FLIR’s field-proven TrueTrace technology detects a broad range of explosives including homemade, commercial, and military with best-in-class sensitivity. Fido X2 performs fast ten-second analysis and provides cost-effective operation with reusable sampling swipes. The quick three-minute start-up maximizes system operational availability.

On-screen prompts and simple go/no-go alarms guide users through operation and aid in sampling and decision-making. Fido X2 features on-device video training that provides real-time help and reduces the cost and logistical burden of recurrent training.

Building on the success of the hundreds of Fido detectors fielded in U.S. Airports, the **Fido X3** was designed with transportation security in mind. The newly redesigned Fido X3 is the lightest and most sensitive Handheld Explosives Trace Detector on the market. With its magnesium case and splash-proof seal, the Fido’s ruggedized design meets the rigorous MIL-STD 810-G specifications. The Fido X3 has an 8 hour battery, starts from cold in under 5 minutes, and clears in seconds, so you spend less time waiting and more time sampling.

Adding to the capabilities of the previously fielded Fido NXT, the Fido X3 adds broad threat detection including Ammonium Nitrate, TATP, and emerging liquid threats like Hydrogen Peroxide and Nitro methane. With FLIR’s exclusive Sensing Element technology, the detection channels can be controlled to alert on the threat materials you care most about. As new threats emerge, the Fido X3 will be field upgradable to incorporate new detection chemistries that are specifically designed to detect the new threats.

While heavy emphasis is placed on trace detection in security applications, the reality is that larger visible or bulk quantities are also encountered. No single detector can be used for every scenario. A variety of complementary explosives detection technologies are used to address both trace and bulk threats. Using an airport as an example, security checkpoints are often equipped with x-ray and millimeter wave for bulk detection and desktop ion mobility spectrometry (IMS) technology for trace detection.

While a trace detector can also detect a bulk sample, it can impact other performance characteristics of the system. Using the IMS trace detection technology example, a bulk sample may take longer to filter out of the system. A system overload may result in clear-down times in excess of hours or may even require an overnight bake-out to completely clean the system. This significantly impacts operational availability. Not all technologies have the same response to a system overload. FLIR’s handheld TrueTrace™ and desktop mass spectrometry-enabled trace detectors reliably clear-down in seconds and do not require bake-outs.

**Fido X3 Explosives Trace Detector**
Chemical & Explosives

Agentase CAD (Fido C1)

The Fido C1 provides first responders with the ability to conduct surface, solid and liquid interrogation of nerve (G&V series), blood (AC) and blister (HD) agents, acids, bases, aldehydes and oxidizers. This kit provides accurate results in field environments, improves detection limits to rival those of expensive handheld electronic testing devices and provides fast signals that are easy to interpret. The simplicity of this kit makes it user friendly for the entire first responder community. Unlike other field detection equipment, the Fido C1 has extremely low rates of false positives and negatives.

Agentase Disclosure Spray (Fido C2)

Fido C2 is an enzyme-based, chemical agent detection system in a spray formulation. The solution changes color when sprayed on surfaces contaminated with chemical warfare agents (CWAs) providing emergency responders and other critical personnel with simple, rapid and reliable access to chemical agent detection.

Fido NXT

Completely redesigned from the ground up, the lightweight and rugged new Fido® NXT delivers fast, accurate and consistent explosives detection capabilities for combat, physical security and anti-terrorism operations. The expanded detection capabilities and reduced size of the Fido NXT enables the system to be easily integrated into existing security measures.

The Fido NXT features a simplified user interface with a GO/NO GO response suitable for novice users. Additional response information is available via the administrator mode for fully trained operators and system administrators. The system provides on-screen prompts for the majority of user actions to overcome issues related to intermittent usage and the associated loss of training knowledge enabling both novice operators and explosives experts to use the device with confidence.

Encased in a ruggedized magnesium shell, the Fido NXT operates in all environments and has passed one meter drop testing. This extremely sensitive device can operate for a full eight hours on a single battery and requires no calibration. The Fido NXT starts up quickly, in less than five minutes, and swiftly clears down after an explosives alert to permit rapid throughput.

DETECTRA HX

The Rapiscan DETECTRA™ HX is a lightweight and ergonomically designed, low cost threat detection tool ideal for military, law enforcement, event, border and infrastructure protection personnel in their efforts to combat terrorism. Combining industry leading, real time Ion Mobility Spectrometry (IMS) technology and sophisticated sampling systems the DETECTRA™ HX provides true hand-held explosive trace detection capabilities.

The DETECTRA™ HX detects picogram-nanogram quantities of a broad range of common commercial and homemade explosive materials, including nitrates, peroxides, plastic explosives, and their associated taggants. With a low false alarm rate, the DETECTRA™ HX offers increased detection probability.

HazClass Kit

The Basic Hazard Classification Kit is designed to provide first responders a rapid and easy method to determine if unknown or suspicious materials present a possible chemical, radiological or biological hazard to the responder, population or surrounding environment. The procedure is not designed to identify the substance, but to determine if a possible hazard may exist. The kit may be used by any personnel with basic HazMat training skills.

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Chemical & Explosives
Military, law enforcement, first responders and emergency personnel know—the most effective missions are the safest. And only known dangers can be proactively mitigated. Yet, some of the most dangerous threats—like toxic, airborne chemicals—are often unseen. Whether investigating a potential chemical suicide, raiding a possible meth lab or conducting military reconnaissance in a hostile theater, ensuring safe breathing conditions is paramount to the safety of all involved. There are many chemical detectors on the market; choosing the right one is critical.

Chemical detection has never been easier. If half of the viewing window changes color—the chemical is present; it really is that simple. No power, no calibration. The Chameleon’s rugged design allows for use in extreme heat and extreme cold conditions and in wet or dry environments. Even after immersion in water, just shake off the residual water and detect the invisible threats.

**SPECIFICATIONS**
- Cassette Shelf-Life: 24 months room temperature*
- Cassette Service Life: 24 hours*
- Temperature Range: -30 C to 50 C (-22 F to 122 F)
- Humidity Range: 20 to 100%RH
- Immersion:
  - Salt Water: 1 Hour
  - Fresh Water: 1 Hour

**AVAILABLE KITS**
- HazMat Detection Kit
- Clan-Meth Lab Detection Kit
- Chemical Suicide Detection Kit
- Arson Investigation Kit

Explosives remain the (HMEs) and Improvised Explosive Devices (IEDs) have become a fact of modern life. Military, law enforcement and intelligence personnel have a dual-role: uncovering the bomb networks before the weapon of choice for terrorists around the world. While once the domain of international terrorist organizations, bombs are now a threat from local, home-grown terrorists as well. Sadly, Home Made Explosives e bombers do harm, and investigating an incident after it occurs. Traditional electronic explosive detection devices require a great deal of specialized training, a large budget and regular maintenance. While colorimetric explosive detection kits have existed for some time, they often require the user to mix chemicals, perform serial analyses, perform multiple swabs or tests, and then use a chart to interpret the results. Said plainly, existing colorimetric kits are difficult to use, especially in stressful situations; it’s hard to interpret results correctly when bullets are flying. Even worse, existing colorimetric kits can expose the user to dangerous chemicals, and expose the kit to contamination from the environment or the user, leading to unreliable results.

The TraceX Explosives Kit is much more convenient. Simple to use and low cost, it can be used by every warfighter or law enforcement officer. With a single swab, the TraceX Explosives kit detects all the major families of explosive materials and their precursors. Thanks to the TraceX’s simple color-change alert system, a single color indicates the presence of a particular family of explosive material. No longer does the user have to conduct serial tests, and then try to interpret the results. The video to your right shows a TraceX Explosives kit detecting Nitrates. The TraceX Explosives kit was developed by Morphix Technologies under contract from the US Department of Defense, and meets their demanding requirements. It is small enough to fit in a cargo pocket, lightweight and rugged. Each kit comes in its own disposable protective plastic case, so you know it will be ready to use when needed. No more broken ampoules from rough handling. And, the innovative collection system protects the sample from user contamination, so you can have confidence in the result.
The Fido B1 (formerly the BioCapture® 650) was designed for first responders working in unfamiliar, challenging and dangerous environments. We know that emergency situations are no place for chemistry sets and delicate instrumentation. The B1 is cutting edge air sampling technology packed in a rugged, lightweight package. Large single button operation means responders can quickly execute the sampling mission and proceed to other objectives.

The key to the B1 is the integrated collector cartridge. With rotating impactor, fluid chamber, fluid lines and sample vial pre-assembled in one disposable cartridge, the system is deployment ready when you are. When the operation is complete, simply replace the cartridge and you are ready for your next mission. There are no internal lines to decontaminate, no sand or dirt to clean out of moveable parts and corners. Simplify your bio-sampling preparedness program with the B1.

The B1 represents a significant leap forward in air sampling technology. Incorporating the latest technological breakthroughs in particle collection, the portable and hand-held unit captures airborne pathogens and spores into a concentrated liquid sample. Snap-in, disposable sampling cartridge minimizes set-up and decontamination. The B1 provides the user with an effective and easy-to-use instrument for fast, safe and efficient biological agent collection. The B1 collects micron and submicron airborne particles and soluble vapors. The battery powered system is ideal for indoor and outdoor tactical response to potential threats such as anthrax, plague, smallpox, and tularemia. Whether the user is operating in a hot zone dressed in Level A or MOPP-IV gear, or performing intermittent air sampling in a mail room, operating the B1 is effort-less and extremely cost effective.

**Pro HazClass Kit**
*Biological Protein Screening Test*

- A Test for the Presence of Protein and pH
- Will Indicate if a Possible Bioterrorism Agent or WMD is Present
- Very Economical and Simple to Use
- Fast and Reliable Powder Test Kit In a Durable Re-Usable Case

**BioCapture 650 (Fido B1)**

The Fido B1 was designed for first responders working in unfamiliar, challenging and dangerous environments. It is a cutting edge air sampling technology packed in a rugged, lightweight package. Large single button operation means responders can quickly execute the sampling mission and proceed to other objectives.

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**20/20 Bio-Check Kit**

20/20 Gene Systems' BIOCHECK™ Kit helps first responders quickly determine—by looking for a color change—whether a suspicious powder may contain a bio terror agent. This is only a first step in determining whether a pathogen or toxin may be present.

The product works primarily by using PurpleHaze™ Technology to identify protein, found in all living material. All bio-warfare agents—including Anthrax and Ricin—contain protein. On the other hand, many harmless substances frequently mistaken to be potential bio-terror agents, such as powdered sugar, drywall dust, cornstarch, and many cosmetics—do not. The BIOCHECK™ Powder Screening Test Kit also includes a test to determine pH. A positive with this test further rules out any materials not containing bio-hazardous materials; these don’t normally survive acidic and basic environments.

**BENEFITS**
- Save resources, time and reduce citizen concern over false alarms
- Used by 100’s of first responder teams nationwide
- Rules out 87% of powders that cause citizens to call 911*
- Simultaneously screen for the possible presence of multiple agents
- Laboratory proven to screen for Anthrax**
- Reduces your need for expensive, time-consuming agent identification
- Results in 5 minutes!

**FEATURES**
- Single button operation in hot zone
- Deployment ready for emergency use
- Laboratory effectiveness in a rugged 7.5 lb. package
- Collects typical agents released in a bio-threat attack including bacterial spores (such as B. anthracis, which causes anthrax), bacteria (such as Y. pestis, which causes plague), viruses (such as smallpox) and toxins (such as ricin)
- 100% decontamination ability
- Highly operable in sand, dust and inclement environments
- Flexible sampling times
- Disposable collector cartridge prevents cross contamination
- Easy to operate by user in fully dressed Level A or MO PP-IV gear

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Integrated with the IBAC or deployed stand-alone, the C100 is optimized for enhanced collection of small particles, such as single spores, and can collect a triggered or continuous aerosol sample. The rugged design and high sensitivity allow the system to be deployed in severe environments such as HVAC systems and outdoor settings.

**MAILPOINT**

MailPoint is a mail inspection work station designed to protect the breathing zones of operators while they sort mail and inspect suspicious items within the containment area. MailPoint maintains existing mail throughput rates while enhancing security, without significant additional labor cost. Through on-site bio screening of letters and parcels, facilities now have the ability to detect credible threats and thereby reduce the impact and cost of a benign powder or a hazardous material.

MailPoint provides a safe workplace to meet the mail handling and inspection needs. Designed around a down-draft table from DualDraw®, MailPoint helps protect against airborne threats. This system pulls air inward and downward, away from the operator’s breathing zone, and finally through a high-performance filtration system. The system monitors air for aerosol concentration, continually sampling aerosols and rinsing them into an internal collection vial at a rate of 1 mL every 15 minutes. Upon an alert, the system takes an additional 10 mL sample for subsequent PCR testing.
Rapiscan 618XR

The Rapiscan 618XR is a compact and versatile X-ray screening system with exceptional image quality and excellent detection capabilities. The 618XR is designed for rapid relocation and can be wheeled through narrow doorways, making it an excellent system for schools, hotels, convention centers and event-based security environments.

Like all systems in the 600 series family of X-ray scanning solutions, the Rapiscan 618XR is built on a standardized platform that makes it easy to install and maintain, and comes with features such as dual-energy detection, a streamlined, ergonomic design, and Rapiscan’s feature-rich OS600 system software.

Rapiscan 622XR

The Rapiscan 622XR offers high performance threat detection and lower total cost of ownership. With a tunnel opening of 750mm x 550mm, the Rapiscan 622XR can accommodate a range of parcel and baggage sizes for checkpoints. The 622XR’s innovative design allows for bidirectional operation, while its dual energy detection provides automatic material discrimination so that screeners can identify the material composition of the scanned object. In addition, it offers options like an adjustable control panel stand and swing-open, easy-access panels.


Rapiscan 620XR

The new Rapiscan 620XR hp is a high performance 620 mm by 420 mm tunnel aviation checkpoint screening system with best in class image quality and excellent threat detection alert capabilities. SINERGY™, Rapiscan’s latest proprietary image enhancement tool, utilizes the new innovative dual-mode X-ray imaging technique (DMxT) to emphasize the detail in specific regions of images by enhancing the visibility of thin metal therefore increasing operator recognition of potential threats in cluttered images. The Rapiscan 620XR hp complies with all European Commission Aviation Security Screening requirements and French Civil Aviation Authority (STAC).

Detection of Explosives and Narcotics Alert - Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

Scanmax 25

The Scanna Scanmax 25 has a large capacity x-ray mail screening chamber of 56 x 42 cm making it the perfect postal x-ray scanner for checking bundles of letters, courier deliveries, york trays, parcels and handbags. Scanmax 25 produces an extremely detailed x-ray image of an item’s contents which is displayed on screen for fast and easy viewing. Scanmax 25 software offers a range of color density based contrasts, allowing operators to quickly and accurately distinguish between legitimate harmless items and malicious mail and be able to instantly confirm a parcel’s safety.

Scanmax 25 is a freestanding postal security x-ray screening cabinet combining a large screening chamber with a compact physical size. It is designed for ease of use by non-technical staff and the front loading door and small footprint mean it can be located virtually anywhere in the workplace. Images are automatically enhanced for optimum clarity with the option to be shown in negative. There are also several image enhancement options for highlighting low, medium and high density materials as well as for defining powders, syringes and circuitry. Image enhancements are made using a simple handheld mouse. All images are stored on screen until the next x-ray exposure is made.
Scanmail 10K

The Scanmail 10K is a compact desk-top electronic mail screener for security checking letters and small packages. Scanmail will automatically find highly explosive letter bombs and bomb making components such as detonators, batteries and circuitry. It will also find other common mail delivered hazards such as razor blade letters and cutting devices whilst reliably ignoring office clutter such as paperclips and staples.

Over 10,000 units used in government, police, high security locations and corporate mailrooms. Scanmail 10K is used throughout the world in high security locations as well as in private residences and royal palaces. Scanmail 10K was also the machine that saved the life of one of the Unabomber’s intended victims by successfully intercepting one of his postal devices.

Unlike other cheap metal detector imitations, Scanmail is not simply a metal detector, it is an intelligent device with advanced discrimination that allows you to reliably find a small battery while discriminating against paperclips and staples. No other unit in the world can reliably do this. Scanmail 10K can be used alone or alongside an x-ray machine as the first line of defense against postal bombs.

扫射 10K

扫射是世界范围内用于高安全地点和私人住宅的便携式X射线系统。扫射10K被广泛用于政府、警察、高安全地点以及皇室住所。扫射10K也是阻止了一个未爆弹谋杀案的机器，该案件被称作“通缉犯炸弹案”。

与其他廉价的金属探测器不同，扫射不仅仅是金属探测器，它是一种智能设备，具有高级别区分能力，可以可靠地检测出小电池，同时忽略掉办公用具如订书钉和大头订。此系统适用于邮件、刀片信、切割工具等危险品的检测。

Scantrak

The Scantrak is a portable digital X-ray system with a range of different sized image capture units (ICUs). It is used by a variety of users which include police, military, customs and public safety agencies as well as prison and building managers to search and examine items safely in situ.

Scantrak is easily set up and deployed within minutes by one person and can be configured for a variety of operating environments. It is supplied with a choice of X-ray generators, different size Image Capture Units (ICUs), standard, notebook or ruggedized laptops and has wireless and ROV capabilities. Operators can control the X-ray generator and capture images safely from the laptop using proprietary Scanview software. Images are transmitted instantaneously via a data transmission cable or through an optional wireless network. Multiple exposures can be taken without the need to re-approach the target.

Scanview software allows images to be enhanced, stitched, rotated and stored for evidential purposes. Areas of interest can be isolated for closer scrutiny whilst measurement and grid tools help with Bomb Disposal tasks. Images can be annotated and exported in windows formats for report writing or printing.

RComRC99

The RadComm RC99 is designed to provide an economical and extremely robust system for covert radiation monitoring of vehicles at a permanent control points or for security operations at special events. The sensitive and durable Polyvinyl Toluene (PVT) sensors are concealed in our specially designed housing allowing for inconspicuous monitoring of radioactive material or threats. Our unique configuration enables the end user to deploy the system quickly and easily in any environmental conditions.

As the vehicle slows and passes over the RC99, the sensor detects elevated levels of gamma radiation and instantly notifies the operator with an audible or visual alarm. The user can segregate the suspect vehicle, driver and passengers and move the response to the next level.

While the system is operated with a user friendly and rugged controller box, operated and monitored with a simple, user-friendly control box, a wireless configuration is available as an option to further ensure the covert nature of the RC99.

Contact Us for GSA and Quantity Pricing
The Rapiscan Metor 6M is a multi-purpose multi-zone walk-through metal detector used primarily for weapons detection. Typical applications include passenger screening at airports and seaports, visitor screening at courthouses, federal buildings and prisons, access control in conferences, public buildings, sporting or other special events, stadiums and concerts, employee and visitor screening in power plants or factories, loss prevention in different industrial applications as well as screening in hotels, restaurants, casinos, and night clubs.

The latest features for advanced security are available on the Metor 6M. Calibration guard, power guard and ready-state violation all protect against unwanted tampering to the machine. Fully configurable user levels allow for unprecedented control over who can view and change settings on the Metor 6M. Automated sensitivity and floor sensitivity functions make the calibration process easy, eliminating the time consuming trial and error method.

Available in 32” and 36” widths, the Metor 6M has a random alarm function that enables security personnel to randomly choose individuals for an additional security check. With the new dual random alarm feature, people who cause a normal alarm are also subject to a random alarm. The Metor 6M is built with intelligent and virtually invisible traffic counters which are integrated inside the coil panels. Counters are bi-directional with a decrease mode. Alarms, passengers and alarm rates can all be counted. With its immunity to electromagnetic interference and vibration, the Metor 6M is easy to install in the most demanding environments. Several units can be placed in close proximity to one another, increasing the level of flexibility when planning an installation site.

The Rapiscan TSA PM700 automatically scans pedestrian traffic without the need for frequent calibration. They are intended for applications where the relatively low energy emissions from 235U and 239Pu are the main concern. They are currently in use at uranium enrichment plants, weapons manufacturing plants, weapons storage sites, nuclear laboratories, nuclear waste disposal and storage sites where detection of Special Nuclear Materials (SNM) is essential. The TSA PM700 monitor is a stand-alone pedestrian radiation portal monitor (RPM) with excellent sensitivity and reliability.

Hand-held metal detectors are an integral part of the physical security screening process. With the Metor 28 from Rapiscan, we have designed a unit that benefits security personnel as well as the person being scanned. Our unique angled design allows you to thoroughly scan an individual, while keeping your hand away from their body.

The Metor 28 is safe for people with pacemakers and will not affect magnetic recording media. The magnetic field strength of the Metor 28 meets with the limits set by international standards for human safety.

The circular opening assists in pinpointing metal objects with a comfortable handle for easy control and grip. It is lightweight, just 9.3 ounces (260 g) with the battery and wrist strap.

The Scanna Gatescan-P is the world’s most versatile walk-through metal detector as it can be can be deployed and transported to virtually any location and be up and running within five minutes by a single operator! It has multi-zone or zone specific detection and is designed for use in demanding environments. Gatescan P is ideal for sporting events, nightclubs, conferences, schools, VIP security or for any event or location requiring high discrimination metal detection combined with ease of use and total portability.

Gatescan-P is a remarkably user-friendly walkthrough metal detector that is straightforward to operate with minimal operator training required. When not in use Gatescan-P collapses into a compact, portable unit on wheels for easy transportation between sites.

Gatescan will operate for up to 40 hours on a single battery charge and can be completely recharged overnight. The unit can be charged whilst erected using the mains charger or whilst collapsed using the mains charger with y-connector. Gatescan-P is available with a protective cover which protects the unit from dust, dirt and scratches during storage and transit. Gatescan-P can be used in or outdoors making it ideal for event security and it has a weather protective cover accessory which protects the arch during rainy conditions.
OREX Modesty Clothing

OREX is the trade name for a line of garments and products that are uniquely and perfectly suited for the needs of all classifications of Emergency Responders. Although they are described as disposable, the performance and durability of the OREX fabric rival any cotton or polyester garment. Not only do they compete favorably in cost, the range of products that we offer exceeds that of any other product of this type. Our Personal Decon Kits are comprised primarily with OREX garments and towels and are priced at nearly half of our nearest competitor. Most noted for its light weight and comfort, the OREX products are engineered and manufactured from a special, degradable polymer that is environmentally friendly. Following use, the used products can be treated using a proprietary process that dissolves the product in high temperature water (> 190 degrees F.), decontaminates it and finally chemically converts it to carbon dioxide and water, much of which is returned to the environment for reuse.

OREX Pre & Post Decon Kits

The OREX Personal Decon Kits address the procedural and logistic issues of mass decontamination operations while offering unparalleled cost-effectiveness. Ultra strong and absorbent towels along with our exclusive protective slippers add to the overall value and performance of the OREX kits. Other factors absent from products of this type have been garment durability and waste management of radioactively contaminated materials.

The Personal Decon Kit utilizes patented OREX products that are made from a special, degradable polymer that is tough, breathable, and environmentally friendly. Following deployment, used products can be treated offsite using a proprietary process that dissolves the product, decontaminates it, and ultimately converts it to carbon dioxide and water. Responsiveness and commitment to the end-user is further illustrated by the fact that LAURUS provides the only Decontamination and modesty clothing specifically designed for the smaller (child’s) user. Until now, a forgotten patient group that will require more privacy and durability capabilities than any other users.

Unparalleled comfort and modesty along with cost effective procurement make the OREX clothing and decon kits a logical and easy choice to make. Available through the LAURUS GSA schedule. Please call for quantity pricing and delivery times.

STANDARD KIT
- Personal belongings bag w/name tag
- Two part wrist ID bracelet
- Pre decon white robe
- Bath size towel
- Scrubs; long pants, v-neck top
- Hard sole slippers
- Double bagged and vacuum sealed
- Custom configurations and child sizes available!
CALIBRATIONS

LAURUS Systems can provide calibration and maintenance services for virtually any and all radiation instrumentation. We calibrate survey meters and dosimeters using NIST-traceable Cs-137 sources. Our contamination monitoring equipment calibrations include complementary detector efficiencies using NIST-traceable radioisotopes commonly used in industrial, medical and research applications.

We are licensed to perform calibrations on instruments with fixed and loose contamination. Additional calibration capabilities include scalers, high and low volume air samplers and lapel air samplers. Neutron detector calibrations are now available!

Instrument receipt, inspection, calibration and return shipment is normally completed within 4 business days. Expedited same day and next day service is also available upon request. Calibration certificates are issued with each instrument, listing as-found and as-left data, with indications of any out-of-tolerance conditions. Our custom instrument calibration tracking database logs all calibration history data and provides automatic calibration-due reminders to customers.

REPAIRS

A highly-trained staff of service technicians have experience repairing all major manufacturers radiation detection instruments. We offer repair services for both portable and installed radiation monitoring equipment, and are licensed to repair instruments with fixed and loose contamination. On-site repair service is also available. We normally perform repairs down to the component level, with a focus on minimizing costs to our customers.

Our calibration laboratory maintains an inventory of common repair parts and procures additional OEM parts from manufacturers as needed. Most repairs will be performed within 3 weeks, depending upon OEM parts availability.

All repairs and maintenance are done at an authorized service center for Mirion (including MGPI, Rados and Rotem). Additionally, we perform all levels of repair on instruments manufactured by Ludlum Instruments, Thermo Fisher Scientific, Canberra, Victoreen, NDS, SAIC, and many other manufacturers.

Our service benefits include:
- Instrument repairs for all major manufacturer’s instruments
- Repair data captured electronically and detailed in reports
- Instrument calibration services that are fast and economical

Our services are available on many State Contracts as well as through our GSA Contract. All of our maintenance and service associates are ready to serve you professionally and efficiently.

Instruments from LAURUS Systems, such as electronic alarming dosimeters and survey meters come with a one year manufacturer warranty. The manufacturers recommend calibration on a yearly basis for most instruments. There is no other regular maintenance or adjustment needed on the radiation detection instruments.

LAURUS Systems has built a reputation on exceeding customer expectations regarding instrument support and service. We can also create Maintenance Service Agreements to meet specific needs and requirements. Please contact us for pricing and return information.
You don't have to go anywhere to get face-to-face training. Whether it is instrument-specific or topical, our experienced team will bring knowledge to you. Your organization will benefit from on-site training with the equipment and systems that your own and use. This ensures that we thoroughly cover the topics and procedures that are important to you. We’ll consult with you and evaluate your needs to utilize the ideal curriculum and hands-on exercises. When we leave, your employees will be confident with the systems and their ability to use them.

Our users find that this option works well for organizations that want more individualized instruction. It’s a cost-effective way to train several users at once with one-on-one instruction and can include or be exclusively a train the trainer scenario. This will allow selected personnel to more actively participate in the training process.

We also offer you the opportunity to come to our Ellicott City, Maryland training facility and learn from experienced Laurus employees and practice your skills on our equipment and instrumentation. By the time you go home, you will feel comfortable and ready to fully utilize your instruments and systems. Whether you’re a new customer, an existing client, or in need of a comprehensive training program, Laurus face-to-face training is a great way to master our products and maximize end-user capabilities.

**Custom Training Solutions**

Whether you are implementing the latest technology or preparing new employees to step into their roles within your organization, remember that your most valuable resource is the human one. When your team members are appropriately trained, they will be successful.

Laurus Systems offers solutions to training and performance issues brought about by technological, procedural, or regulatory changes. We are experienced in the instruments we provide as well as in the use of these technologies in the field. Our expertise goes beyond that however as we can provide practical training for virtually any radiation detection instrumentation. Likewise, we can provide programs to help your staff understand and better respond to the radiological issues that they will face in a sensible and easy to comprehend format.

Our experienced staff and contract personnel will help you perform a needs analysis, create and implement a custom solution tailored to your needs, determine whether your training investment is achieving the desired results, and offer you a number of delivery options.