

for HAZMAT, Policing and Security Applications



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Griffin[™] G510

The Griffin G510 is a next-generation chemical detector and identifier for military, civil, forensic, and environmental responders.

Versatile and person-portable, the G510 provides the user with the ability to quickly identify unknown threats and confirm known hazards which in turn gives responders the confidence to take immediate action.

- Completely self-contained, including vacuum system, batteries, and carrier gas no service module needed.
- Accepts all phases of matter (liquid, solid, vapour).
- Large, 9" touchscreen can be operated in the Hot Zone while wearing full PPE.
- Decon-ready with IP65-rated enclosure that is dust-tight, spray-resistant.



Specifications	
Mass Analyser Type	Linear quadrupole mass filter
Mass Range/Resolution	15 - 515 m/z; 0.7 αmu@FWHM
Detection Limit	PPM (parts per million) – PPT (parts per trillion)
LTM-GC Column	DB-5MS (15 m x 0.18 mm x 0.25 μ m); others available

Griffin[™] G510x

The Griffin G510x is a versatile, person-portable chemical identifier specifically optimised for the detection of narcotics and explosives.

- Confirmatory identification of major and minor chemical constituents in street drugs in under 5 min.
- Integrated Sample injection port allowing for environmental, forensic, and hazardous material sampling via the included Sample Prep Kit.
- RTX-TNT column (5 m).

Agentase C2

Agentase C2 agent disclosure spray complements electronic sensors by providing the ability to map chemical agent contamination for emergency response missions, as well as aid in the decontamination of personnel or equipment after exposure to CWAs, specifically nerve agents (G- & V-series) and sulphur mustard (HD).

After being sprayed directly onto a surface, the Agentase C2 enzymes react by changing colour to red within 5 minutes of detecting CWAs. This colour change reveals the specific location of contamination. The forensic spray is translucent yet allows the threat to be seen under UV-light, a critical feature for covert operations.

- Ability to detect submicrogram (trace) levels of agents.
- Three applicator sizes: handheld, man-portable backpack, and wide-area cart-based system.
- Reveals exact location of agent on surface to reduce decontamination costs.
- Optional fluorescent additive enhances the visual response when used with an ultraviolet (UV) light in poor lighting conditions.
- Rapid response (within 5 minutes).



CQL Max-ID

The Rigaku CQL Max-ID handheld 1064 nm Raman analyser provides chemical threat analysis for safety and security applications.

Featuring an on-board library of over 13,000 items, it provides first responders, border security, and the military with a device that can identify narcotics, explosives, toxic chemical industrial chemicals, chemical warfare agents (CWAs), and more – without the concerns of fluorescence interference.

- · Nondestructive testing.
- Capable of analysing solids, liquids, powders, gels, pastes, and more.
- Can scan through translucent packaging.
- Priority listing of a substance (utilisation of ThreatAlert hazard targeting).
- Detection of an unknown (with optional QuickDetect).
- Results in less than 1 minute.
- IP-68 tested, protecting the Max-ID from dust ingress and water immersion.

CQL Gen-ID

The Rigaku CQL Gen-ID provides advanced analytical chemical identification of the more common threats found at the border, or in clandestine or crime laboratories. It is a cost-effective solution for departments looking for targeted chemical threat analysis, such as narcotics, explosives, household chemicals, precursors, and more.

- Automatic mixture analysis of up to 5 components.
- Identify bulk and trace levels of an unknown substance.
- Automatic precursor monitoring.
- Add pictorial evidence using on-board camera.
- Adjustable focal position to accommodate sampling through different packaging
- Integrated CommandSuite fleet management capability.

CQL Narc-ID

The handheld Rigaku CQL Narc-ID 1064 nm Raman analyser provides presumptive identification of narcotics, precursor chemicals, and cutting agents – even in non-visible amounts.

Suitable for counter-narcotics agencies, law enforcement, crime laboratories, prison facilities, customs agencies, or public safety efforts, the CQL Narc-ID can have a direct impact on protecting communities from dangerous chemicals that currently pervade through the illicit drug supply market.

MX908 Handheld Chemical Identifier

The MX908, is a handheld, portable device capable of detecting trace levels of drugs, explosives, chemical warfare agents and hazardous chemicals.

The MX908 uses innovative High-Pressure Mass Spectrometry to perform detection and identification of chemicals, giving high sensitivity and selectivity.

Capable of detecting nanogram/ppb levels of substances, device users can sample exteriors of suspect packages for trace residues, limiting their exposure to the substances inside.

- Fast start up time.
- Analysis in less than 60 seconds.
- Audio and visual alerts.
- Simple user interface.







© Rigalcu COL Narc-ID Touch screen or press Enter to login Rigalicu

MX908 Beacon

Deployed by militaries and first responders around the world for detection and identification of chemical threats, the MX908 Beacon™ allows operators to augment their area monitoring capability providing real time identification of aerosol and vapour chemical warfare agents (CWAs) and pharmaceutical based agents (PBAs).

A remote communications package allows users to operate and monitor multiple Beacons from anywhere in the world while sharing real time data with their team.

- Only area monitor for vapour and aerosol identification.
- Compatible with any MX908 device.
- Trace identification (low-mid ppb/ng) of threats.
- · Extended operation and standby time.

ProtectIR

Confidently identify thousands of chemical threats anywhere with the portable ProtectIR. Compact and lightweight, it is the ideal 'grab and go' platform for rapidly assessing chemical threats such as TICs, TIMs, VOCs, narcotics such as Fentanyl and Nitazenes as well as explosives.

- Clear, visible results in seconds
- Simple operation.
- 24/7/365 Reachback.
- Designed for use in harsh environments.
- Built-in wireless communication.

XplorIR®

XplorIR® is the only handheld gas/vapour detector that can accurately detect, identify, and quantify 5,600+ unknown chemical threats in seconds. Use XplorIR® to continuously monitor and receive immediate answers during high-threat operations, or transition to point-and-shoot mode for isolated target intelligence.

Chemical warfare threats such as Nerve, Blister, and Choking agents. Also, hazardous chemicals such as TICs, TIMs, and VOCs.

- Clear, visible results in seconds.
- Adaptive atmospheric corrections.
- Part per million (ppm) level sensitivity.
- Simple operation.
- Designed for use in harsh environments.
- 24/7/365 Reachback.
- Provides accurate ID of up to 6 components in real-time even within complex gas mixtures.

ThreatID™

ThreatID™ gives emergency and military responders the ability to accurately identify a vast range of chemical threats with a single, portable, battery operated system. It can rapidly detect and identify more than 23,000 unknown powder/liquid chemical threats, and mixtures with a single FTIR tool, including hazardous chemicals, explosives, CWA and Illicit drugs.

- Chemical Warfare Agents (CWAs).
- Hazardous Chemicals: TICs, TIMs, VOCs.
- Explosives.
- Narcotics: Fentanyl, Nitazenes.







Explosives

Fido® X2 Fido® X4 Fido X2® is an ultra-lightweight, handheld explosives Fido X4® is an ultra-lightweight, handheld explosives trace trace detector (ETD). It features FLIR's proprietary detector (ETD). It features FLIR's proprietary TrueTrace™ TrueTrace[™] technology to detect a broad range of technology to detect a broad range of chemicals used in the manufacture of homemade, chemicals used in the manufacture of homemade, commercial, and military explosives commercial, and military explosives with best-in-class sensitivity. with best-in-class sensitivity. • TrueTrace[™] detection in ≤10 seconds. • TrueTrace[™] detection in ≤10 seconds. • Detects broad range of threats. • Detects broad range of threats. • Quick three-minute start-up. Quick three-minute start-up. Rapid clear-down in seconds. • Rapid clear-down in seconds. • Intuitive, go/no-go alarms. Intuitive, go/no-go alarms. • On-screen guided operation. • On-screen guided operation. Δ • On-device video training. On-device video training. • Ultra-lightweight <680 g. Ultra-lightweight <680 g. • Reusable sampling swipes. · Reusable sampling swipes. • No radioactive ionisation source. No radioactive ionisation source. No hazardous chemicals. No hazardous chemicals. www.**southernscientific**.co.uk

CQL Max-ID

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- Priority listing of a substance (utilisation of ThreatAlert hazard targeting).
- Detection of an unknown (with optional QuickDetect).
- Results in less than 1 minute.
- IP-68 tested, protecting the Max-ID from dust ingress and water immersion.



CQL Gen-ID

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- Automatic mixture analysis of up to 5 components.
- Identify bulk and trace levels of an unknown substance.
- Automatic precursor monitoring.
- Add pictorial evidence using on-board camera.
- Adjustable focal position to accommodate sampling through different packaging.
- Integrated CommandSuite fleet management capability.



Pendar X10

The Pendar X10 is a hand-held Raman spectrometer that rapidly identifies hazardous chemicals. This includes highly fluorescent, dark, and sensitive materials that other hand-held Raman instruments struggle with or even ignite.

- Hand-held, up to 2 metre stand-off point-and-shoot measurement.
- Can provide through barrier capabilities.
- Reach deep into a barrel through an opening, with no sampling required.
- Class 3R laser; no laser safety eye protection or special training required.
- Minimal ignition risk with black powder and sensitive primaries.
- Dark or highly fluorescent materials identified in <30 seconds, white powders in 5 to 10 seconds.
- Rapid analysis using advanced algorithms and powerful embedded processor.



Biological

BioThreat Alert® Reader VII

The BioThreat Alert® Reader VII by Tetracore is a handheld instrument designed for advanced molecular and immunological detection of biological threats such as anthrax, ricin, and more.

Weighing in at less than half a kilo, is it light and portable, and can deliver results in less than 30 seconds.

The reader can detect a range of biological threats from toxic plant proteins such as abrin to viruses such as orthopox with the use of the Multiplex Test strips.

- Accurate results LFA readings in less than 30 seconds.
- Weighs only 450 g.
- Internal memory storage for thousands of readings.
- Optional WiFi and USB compatibility for data downloads.
- Buit-in touchscreen.



The BioThreat Alert® (BTA) multiplex strips are based on principle of Lateral Flow Assay (LFA)(like the covid tests) and intended to screen for presence of up to five targets in one environmental sample per test on site such swab on surfaces, animal or human samples (not blood), beverages and food samples, etc.

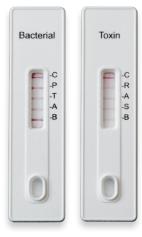
- Easy to use and can be stored at room temperature.
- Require a very small amount of sample (0.12mL) per test.
- Results are obtained in around 15 minutes.
- Each test has four test lines and one control line.

The bacterial strip can detect the following:

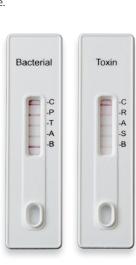
- Anthrax.
- Plague.
- Tularemia.
- Burkholderia.
- Orthopox (family of smallpox).

The toxin strip can detect:

- Ricin
- Abrin
- SEB (Staphylococcal Enterotoxin B).
- Botulinum Toxin A & B.









PED-Blue / PED-ER

7 7 7

0.21µSv/h

PED-ER

3 3 3

0.21µSv/h

IBAC[™]2

The IBAC[™]2 is a continuously operating monitor that provides early warning of biological aerosol threats.

It can operate independently or as part of a network configuration to form the 'first tier' of a building air-security system. In addition to providing real time alerts to biological aerosol threats, it can trigger a secondary aerosol sampler for subsequent identification.

- Rugged design and high sensitivity allow the IBAC to be deployed in severe environments such as HVAC systems and outdoor environments.
- Provides near real time warning capability for biological aerosol threats.
- Government validated with over 125,000 hours of run time in relevant environments.
- Alert can automatically trigger a particular sampler for subsequent identification.
- Operates unattended 24/7 without consumables.
- Complete self-diagnostic system.
- Battery or line powered with up to 16 hour run time per battery charge.

 Easily integrated with most building monitoring and control systems.

Alert algorithms validated for both indoor and outdoor environments.



The MUVE™ B330 is a Continuous Biological Detector and Collector purpose-designed for unmanned aerial systems (UAS) to provide real-time continuous monitoring of biological threats while on the move.

The B330 leverages the legacy design and performance of the IBAC product line in a SWaP-optimised configuration providing next level protection to combat forces by identifying biological threats remotely and down range.

- Deployment via the SkyRanger[®] R70 and R80 SkyRaider[™] serves as the platforms.
- Payload is designed to be intuitive, easy to use, and require minimal maintenance.
- Sensor display is provided via the Mission Control Station (MCS) piloting interface.

 Alarming conditions and collector status are displayed to the Pilot to not only alert them to a threat, but also provide positive confirmation that a sample is being collected.



Personal Electronic Dosimeter (PED)

Ideal for users who are not specially trained to measure radiation exposure, the PED family have been specially designed to be easy to use and understand.

Encased in weather, shock, and drop-proof housings each PED features a smooth clean design and simple to use DoseVision™ software.

- One button operation.
- Large screen displaying dose rate, accumulated dose and peak dose rate.
- Multiple languages.
- Easy to change between multiple users.
- Rated water resistant as per IP67.

PED-Blue

- Energy Range: 33 keV to 3 MeV
- Dose Rate Range: 0 100 mSv/h
- Battery Life: 300 hours typically with background radiation.
- Weight: 190 g including belt clip.

PED-ER (Extended Dose Rate Range)

- Energy Range: 48 keV to 3 MeV
- Dose Rate Range: 0 1 Sv/h
- Battery Life: 300 hours typically with background radiation.
- Weight: 190 g including belt clip.

PED2-IS

Built on over a decade of user experience with the original model, PED2-IS is a rugged, lightweight and easy-to-use personal electronic dosimeter that effectively monitors, measures and manages radiation exposure. It is an intrinsically safe certified device for use in potentially explosive environments, such as the oil and gas industries. A new Graphical User Interface (GUI) features intuitive visual elements, simple menus, and a single-button navigation for effortless operation.

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PED2-IS

T401 Contamination Monitor

Designed to meet the challenge of combining operational reliability with excellent sensitivity the T401 offers a range of features including direct surface, peak and background readings. It can be used one-handed, or detach the probe for two-handed operation.

The T401 can be supplied with an extension pole kit to securely deploy the detector probe during monitoring operations.

- Dual bar graph meter display 0 1000 cps.
- Digital numeric display with automatic direct translation to Bq/cm² for 14+ pre-programmed nuclides (natural and man-made) including C-14, P-32, Cs-137.
- Optional extension arm.
- Detachable probe.
- Background reading and storage.
- Audible response with adjustable alarm thresholds.



T402 Dose Rate and X-ray Monitor

The T402 is lightweight, yet robust and comfortable to use over extended periods.

- Detects gamma and X-rays from 60 keV 1.33 MeV.
- Digital bar graph display: 0.1 1000 μSv/h.
- Digital dose rate indication: 0 10,000 μSv/h.
- Peak dose rate memory allows maximum exposure levels to be recorded.
- Accumulated dose rate memory for risk assessment and total exposure.
- Audible response with adjustable alarm thresholds.
- Water-resistant so easy to clean and decontaminate.
- Shock and drop tested so highly durable.

DMC 3000 / DMC 3000 Personal Electronic Radiation Dosimeter

The DMC 3000 Personal Electronic Radiation Dosimeter features superior gamma and X-ray energy response, programmable alarms with visual LED, audible, and vibrating alarm indicators, simple 2-button navigation, and the ability to be fitted with external modules for expanded capabilities.

The DMC 3000 has a complete line of attachable modules that expand the detection and communications capabilities of the dosimeter these are: DMC 3000 Beta Module, DMC 3000 Neutron Module and DMC 3000 Telemetry Module.

- Designed for ruggedness and durability.
- Loud audible alarms, coupled with ultrabright LEDs and vibration capability.
- Simple 2-button operation and navigation of display options.
- Meets or exceeds applicable IEC and ANSI standards.
- Operates for up to 9 months on a single standard AAA battery.

The add-on PRD Module attaches to the DMC 3000 dosimeter and provides radiation counting information for source and hot spot location assessment, while providing dosimetry protection to the operator. It is powered by the DMC 3000 for over 1000 hours of use.

SOR/T Dosimeter

The SOR dosimeter line is built upon two basic versions: the SOR/T is used for tactical (gamma and neutron) and residual/ambient gamma measurements.

Hardened military-grade versions of the DMC 2000 family of dosimeters, the SOR series of personal electronic dosimeters provide stable, acurate dose measurement for soldiers, first responders, and anyone needing lightweight, easily configurable radiation monitoring.

An important special feature of the SOR line is its ability to meet the needs of various applications with one product. Given its multi-detector architecture the measurement range covered is broad, and includes high level gamma and neutron dose rates as well as low level radiations (L.L.R).

These dosimeters are qualified in accordance with current military and civil standards. The SOR line has even exceeded some of the standards currently in use in order to account for harsh operational environments.

- Dosimetry management under NBC threat.
- Individual and collective dosimetry.
- · Manage dosimetry in field conditions.









XOM Reader

The XOM/T[™] and XOM/R[™] reader/recorder are portable and autonomous devices designed for field management of personal or collective dosimetry, when measured with SOR/T[™] or SOR/R[™] dosimeters. These readers can be used in autonomous mode with an integrated database, or as a part of a global dosimetry and human resource management system.

- Dosimetry management under NBC threat.
- Individual and collective dosimetry.
- · Manage dosimetry in field conditions.

AccuRAD™ PRD

A discreet yet robust PRD designed for law enforcement, fire rescue, and other emergency responders to detect and interdict nuclear and radioactive materials. It also provides dose measurement and alarming capabilities for event response.

The AccuRad PRD has your back with best-in-class radiation detection, search and localisation technology, all sealed up in a durable, discreet, easy-to-use device.

- IP67 rated.
- Discreet mode option.
- USB C connectivity.
- NFC and BLE data transmission.
- Smart Phone App available.
- >900 hrs battery life.

RDS-32[™] Survey Meter

The RDS-32 is a small hand-held, battery operated radiation survey meter that not only measures H*(10) dose equivalent rate with its internal detector or detector combination (for wide range variation), but also contamination (Alpha, Beta, X-ray) and remote dose-rate (Gamma and Neutron) with external probes.

Lightweight and easy to handle, with visual, audible, and vibration functions, this meter is ideally suited for a wide range of applications in civil defence, industrial use, nuclear power plants, laboratories, etc. Each meter also includes an additional battery cover with belt clip to make it wearable, freeing the user's hands to focus on their primary job.

To extend the capabilities of the instrument, a wide variety of external Smart probes are available to meet user needs with any RDS-32 version. GMP-12/GMP-25 probes, and the full CSP probe range can be connected to all RDS32 versions with adequate cable. The selection includes probes for gamma and neutron dose rate and alpha and/or beta contamination with various detection areas and scaler counting.

- H*(10) dose equivalent rate.
- External Alpha, Beta, Gamma and Neutron Probes for direct connection.
- 4-way navigation keys with practical shortcuts.
- Intuitive user interface.
- Warning and Alarm levels alert users when they are approaching their limit.
- Large graphic screen with configurable backlight.
- Automatic display rotation via the built-in tilt sensor.
- High impact durable case construction IP67 immersion proof.
- Internal memory allows versatile histogram functions and the ability to manually store measurements.
- Complies with IEC 60846 standards and is designed to meet ANSI 42.17A, 42.17C standards.









SAB-100™ Alpha / Beta Probe

The SAB-100 probe for measurement of surface contamination is designed to be used with any CSP survey meter. Its phoswich detector with 100 cm² detection area makes it an ideal tool for direct measurement of Alpha and Beta emitters.

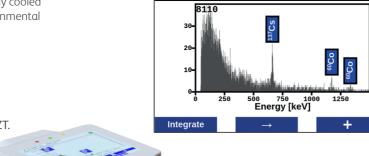
- 100 cm² Phoswich scintillation detector.
- Belongs to CSPTM family.
- Calibration via PC.
- Easy removable grid for decontamination.
- Ergonomic counting mode selector on probe body.
- New probe angle for hands contamination free.

A400 Handheld Radioisotope Identification Device (RIID)

Providing high energy resolution, high efficiency and directionality the Next Generation A400 has been designed to set a new standard in radioisotope identification devices (RIIDs).

Using the most advanced semiconductor technology available the A400 offers spectroscopic performance competitive with cryogenically cooled detectors for border security operations, first responders, environmental monitoring, military and defence applications.

- Practical high-performance gamma-ray spectrometer.
- Compact and portable.
- Designed to exceed ANSI N42.34.
- Real-time 360° isotope-specific directionality.
- Industry-leading efficiency with over 19 cm³ pixelated CZT.
- No cryogenic cooling required.
- Real-time isotope detection and identification.
- Embedded user interface with one-handed operation.
- Network webpage interface for mobile devices.
- Wireless connectivity.
- Storage case included.
- Removable battery.



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Specifications	A400	A401
Resolution (% FWHM @662 keV)	< 1.0	< 1.0
Spectrometer Range (keV)	50 - 3000	50 - 3000
CZT Volume (cm³)	> 19	> 19
Weight (kg)	1.8	1.8
Battery Life (Hrs)	8	8
IP Rating	IP65	IP65
Temperature Rating (°F)	-4 to 122	-4 to 122
Start Up Time (Minutes)	< 1	< 1
User Interface	Embedded Screen	Embedded Screen

H420 Gamma-Ray Imaging Spectrometer The H3D® H420 is a fast, portable, and easy to use

imaging spectrometer optimised for identification and localisation of gamma-ray sources.

- Rapidly identifies and locates primary source terms.
- Precision overlay of gamma-ray and optical images.
- Images both point and distributed sources.
- Discrimination between background and sources of interest in less than 20 seconds
- Air/water tight for easy decontamination.
- Dose-range gauge.
- Automatic report generation.
- Annual recalibration and software updates included

Specifications	H400	H420
Resolution (% FWHM @662 keV)	< 1.1	< 1.1
Spectrometer Range (keV)	50 - 3000	50 - 3000
Imaging Range (keV)	250 - 3000	50 - 3000
Collimator (" Tungsten)		N/A
CZT Volume (cm³)	19	19
Weight (kg)	3.6	3.6
Battery Life (Hrs)	> 6	> 6
IP Rating	IP65	IP65
Temperature Rating (°C)	-20 to +50	-20 to +50
Start Up Time (Minutes)	> 1.5	> 1.5
User Interface	Tablet	Tablet



Radiological / Nuclear

identiFINDER® R225

The identiFINDER® R225 is a pager-sized Spectroscopic Personal Radiation Detector (SPRD).

Featuring a single 18 mm cubic CsI detector with SiPM (G/GN) providing exceptional sensitivity and identification capability, there is also an option for an LaBr(Ce) spectroscopic detector (LG/LGN) for ≤3.5% resolution. The device features the familiar three-button control common to all identiFINDER products.

- Familiar three-button control common to all identiFINDER products.
- Outstanding spectral ability to enable fast front-line detection and response.
- Belt-worn and detects gamma and neutron. It also has the ability to identify gamma.
- Field-proven and trusted template matching algorithms, characteristic and present in the entire identiFINDER family of products.
- Survives tough missions so you can wear with confidence.
- IP67 rated for use in harsh environments or temporary submersion during decontamination. MIL-STD 810G (salt/fog) compliant.
- Automatic calibration, stabilisation, and no user maintenance required.
- ≥ 36-hour battery life, plus additional 18-hour replaceable battery.
- Low training burden for quick field adoption.
- Ability to monitor and control remotely using the mobile app (iOS and Android).
- Built in communications and a robust API enable integration with user deployed networks. ANSI N42.42 data output is standard.
- Integration with SIGMA Edge with ATAK coming soon.

identiFINDER® R400

The R400 is able to rapidly detect, quickly locate, accurately measure and precisely identify gamma emitting radionuclides.

- TFT LCD 64k colour display.
- LED stabilised.
- 12 channel, SIRF III GPS.
- Reachback via Bluetooth® connected to DUN capable cell phone.
- ANSI N42.42 output format.
- Web interface for monitoring and configuring instrument.
- Original three button operation.
- 1GB event data storage.
- Visible, audible and tactile alarm annunciators.
- Embedded windows CE operating system.
- Meets ANSI N42.34 shock conditions.
- A neutron option is available.





identiFINDER® R425

The identiFINDER R425 is a next generation instrument, vastly improving on its predecessor. The R425 uses the same algorithms that have proved themselves in the R400, whilst building and expanding upon its advantages. This new device raises the standard of the modern RIID, and should be at the forefront of a responder's arsenal.

This device comes packed with innovative features, including:

- 2 x 2 Nal Detector The R425 is 3.5 x more sensitive than other all-purpose RIIDs, whilst including up to 10% superior resolution.
- Sourceless Stabilisation Automatic stabilisation reduces false positives when taking measurements in the field, improving data collection and decision making.
- IP67-Rated The R425 is protected from total dust ingress and water immersion, up to 1 meter in depth for 30 minutes. This coves you for rain, splashing and accidental submersion of the device.
- Rugged Construction Built to survive rigorous use, the device is drop tested to 1 meter and has a fully encloses crystal. Fully meeting the ANSI N42.34 standard.
- 360° Easyfinder Mode Easily navigate and respond to threats. The 360° Easyfinder mode collects and interprets data, pinpointing the exact location of a source.



compliant. It is three and a half times more gamma sensitive

and more than two times

more neutron sensitive than

its underwater predecessor,

the R400.





Radiological / Nuclear

MUVE™ R430

The MUVE R430 is a radiation detector designed for unmanned aerial systems (UAS) used to detect, locate, measure, map, and identify radioactive sources from above.

The SkyRanger® R70 and SkyRanger® R80D serve as the airframe for the R430. The R430 is integrated into the R70 and R80D's Mission Control Software (MCS) providing visible and audible alerts that expedite response measures.

The R430 provides a balance of size and weight for various situations including emergency response, environmental monitoring and surveying.

The MUVE R430 brings the pedigree of the identiFINDER series of best-selling radionuclide identification devices to the sky. Utilising the same, familiar interface the R430 can go quickly to perform assessments in hard-to-reach places and environments while keeping the operator at a safe distance.

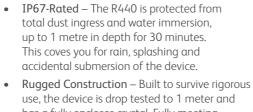
- Evaluate radioactive events from a safe distance When dangerous conditions exist, or are anticipated, utilise the MUVE R430 to fly in for an initial assessment.
- Reduce reaction times Quick deployment allows for rapid threat assessment even in areas where contamination would be difficult to access normally.
- Fully integrated situational awareness When gathering a comprehensive view of a scene, the MUVE R430 provides the Mission Control Software the data needed to give a complete view.

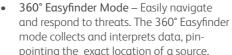
identiFINDER® R440

The identiFINDER R440 is a next generation instrument, vastly improving on its predecessor. The R440 uses the same algorithms that have proved themselves in the R400, whilst building and expanding upon its advantages. This new device raises the standard of the modern RIID, and should be at the forefront of a responder's arsenal.

This device comes packed with innovative features, including:

- 2 x 2 Nal Detector The R440 is 3.5 x more sensitive than other all-purpose RIIDs, whilst including up to 10% superior resolution.
- Sourceless Stabilisation Automatic stabilisation reduces false positives when taking measurements in the field, improving data collection and decision makina.
- total dust ingress and water immersion, up to 1 metre in depth for 30 minutes. This coves you for rain, splashing and accidental submersion of the device.
- use, the device is drop tested to 1 meter and has a fully encloses crystal. Fully meeting the ANSI N42.34 standard.
- mode collects and interprets data, pinpointing the exact location of a source.
- A neutron option is available.









(BRD) offers new spectroscopic broad-search capabilities.

capabilities required to successfully perform wide-area searches quickly and efficiently while offering exceptional sensitivity, communication, and trusted spectroscopic algorithms in a lightweight, ergonomic form-factor.

- Interrogate and isolate radiological threats quickly.
- Can be configured as a stationary screening device to deploy at the scene, or as a nondescript backpack for covert on the move operations.
- Wireless communications and a robust API enable integration with user-deployed networks allowing the user to share intelligence broadly, or operate silently.





SPIR-Ace

The SPIR-Ace is a versatile Radio-Isotope Identifier (RIID), utilising SPIR technology in a compact, user-friendly package. Useful for a variety of applications that require efficient detection and identification of radiological threats. These include security applications, such as civil defence, border and customs. The SPIR-Ace is also useful for obtaining accurate assessments of nuclear materials for nuclear power plants, safeguarding labs, and more.

- Continuous acquisition: dose rate, count rate and detection.
- Multiple specific nuclide libraries depending on application.
- Source searching guidance.
- Enclosure class: IP54.
- Connection to external alpha/beta probe.
- Can be connected to other warning and surveillance devices (e.g. watch, tablet).

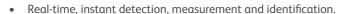
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SPIR-Explorer Sensor

The SPIR-Explorer Sensor allows detection, measurement and identification of radiological sources over a very large range. It is intended to be mounted on demanding carrier, such as UAVs or robots. It may also be used within fixed or deployable systems.

Typical uses are searching for any unexpected radiological sources and checking for radiological risk in case of accident, and mapping of contaminated areas.

Operation is fully automated and results are shown and memorised at an associated radiological base station. The SPIR-Explorer Sensor is using proven technology from the 'SPIR-Ident' and 'SPIR-ID' product family in a much smaller and lighter form factor.



- Wide dose rate range: from natural background to high accident levels.
- Light and robust.
- Simple and fully automated use.

SPIR-Ident Mobile

The SPIR-Ident Mobile Platform utilises large advanced gamma spectroscopic detectors, various neutron detection modules and sophisticated algorithms to deliver fast and reliable detection and real-time nuclide identification capabilities for military, security, law enforcement, and environmental applications. It is a modular and scalable system that can be configured for easy deployment in vehicles, compact transportable modules, or in low profile (stealth) configurations.

- Can be powered by a single USB connection from a Laptop computer.
- SPIR View software provides mapping, data reach back and mission replay capabilities.
- Very sensitive nuclear detection and real-time nuclide identification.
- Advanced algorithm for nuclide identification, categorisation into NORM, medical, industrial, and Special Nuclear Materials (SNM), and nuclear threat assessment.
- Post event contamination level mapping.
- Supervision software including integration into SIGMA.



SPIR-Ident Vehicle and Pedestrian Portal

The SPIR-Ident Vehicle and Pedestrian is a gamma and neutron spectrometric portal. It is intended for dynamic detection and identification mode for protecting sites and critical infrastructure from the intrusion of special nuclear materials (SNM) or radiological dispersion devices (RDD) by controlling pedestrian, luggage, small items, parcels and vehicles. It can be configured for use with occupancy detector or ancillary cameras to provide a complete protection solution.

- Gamma and neutron detectors.
- Dynamic pass through mode.
- Effective real-time Medical and NORM rejection.
- Single, double sided and multiple pillars for passage ways.
- Masked and shielded SNM and RDD identification.
- Automated operation with full camera support.
- 'Easy' display and advanced modes.
- Automated log with spectrum and image capture.
- Masked and shielded SNM and RDD identification.



Guardian Vehicle, Cargo and Conveyor Portal Monitors

Guardian radiation portal monitors are designed to detect and identify gamma and neutron sources concealed in trucks, trains, cargo containers, passenger vehicles, or parcels – without disrupting the flow of commerce.

Guardian portals detect and identify radionuclides, discriminating between naturally occurring radioactive materials (NORM), medical and industrial isotopes, and special nuclear materials (SNM), which dramatically reduces the need for manual inspections.



Guardian™ TPM905

Protecting individuals, events, and critical infrastructure while maintaining the free flow of pedestrians in areas with high foot traffic are the key objectives of Guardian pedestrian portals.

The Guardian™ TPM905 is a pedestrian portal monitor that can be moved from location to location as needed. Compact and water resistant, this portal monitor automatically screens people and packages for radioactive sources in hospitals, laboratories, and transportation terminals or outside at open-air events and venues.

- Gamma radiation detection.
- Programmable detection parameters.
- Audio and visual indicators.



MiniSentry[™] 2

The MiniSentry 2 portal monitor is for screening of pedestrians or vehicles for gamma radiation. It is designed to be quickly set up and operated with very little training or expertise in radiation detection technology. This portable system is well-suited for emergency scenarios and security applications.

The monitor provides intuitive clean/contaminated status indication via the integrated LCD screen, LEDs, loudspeaker and an optional LED light tower. The modern firmware is simple to use and provides a comprehensive password protected expert settings menu at the same time. Three different measurement modes (walk-through, enter-wait, count-rate) are available to support various applications. All measurement data can be easily exported to Microsoft Excel-readable *.csv files for further analysis.

The MiniSentry 2 monitor is designed to meet the requirements of the U.S. Federal Emergency Management Agency (FEMA-REP-21) as well as the IEC 62244 standard.

- Gamma portal monitor for rapid deployment and emergency response.
- Quick and easy setup with automatic start-up and operation.
- Simple clean/contaminated status indicator.
- Very little training or expertise in radiation detection needed.
- Weighs less than 43 kg (95 lb).

TSA PM700 Portal Monitor

The PM-700AG's 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 (special nuclear materials).

All of the essential components are contained in the pillars: radiation monitors / detectors, controller, occupancy detector. The system operates from an internal battery which 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.

The PM-700AGN adds neutron detection capability to the basic PM-700AG. Both models are equipped with RS-232 and Ethernet communications capability.

- Designed to automatically scan pedestrian traffic without the need for frequent calibration.
- Intended for applications where the relatively low energy emissions from ²³⁵U and ²³⁹Pu are the main concern.
- Currently in use at uranium enrichment plants, weapons manufacturing plants, weapons storage sites, nuclear laboratories, nuclear waste disposal, and storage sites where protection of SNM is essential.

Service and Support

Southern Scientific has a team of fully qualified service engineers, who support customers spanning the length and breadth of the UK. We can provide factory or on-site service as required, based on single visits, planned maintenance or full support under contract. We maintain a high level of spare parts, ensuring lifetime support capability.

Our systems group can offer its service for the larger installed equipment, from initial planning to installation, completion and training. We can provide expert knowledge and experience, gained through involvement in a number of large-scale projects throughout the years.

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Southern Scientific Ltd is certified to ISO 9001 and ISO 13485 representing the high level of quality assurance and management that we provide at every stage of the supply process, whether a product is distributed on behalf of our trusted manufacturers or constructed in our UK workshop. This accreditation means that our customers can place an order knowing that the delivered product will be suitable for its intended use, fully compliant with EU legislation and in full working order.

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A LabLogic Group Company Version 1.5 February 2025