

for Security and Policing 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.







Progeny ResQ CQL

Ideal for use by Military personnel and First Responders, the Rigaku Progeny ResQ CQL is a robust, efficient and effective tactical tool for bulk screening of unknown chemical hazards, capable of identifying of solid and liquid chemical substances in seconds.

This easy to use handheld device is perfect for collecting data even in the most challenging conditions.

- Eliminates fluorescence interference (1064nm benefit).
- On-board camera (enhance your incident reporting!).
- Automatic precursor warning (4C combination warning of potential precursors).
- Non-visible sample detection (via integrated trace detection colorimetrics – Optional QuickDetect Mode)
- Measure through coloured packaging without sample preparation.
- Standard substance library of ~13,000 compounds including:

Explosives – Includes military and civilian explosives, IEDs, precursors.

Narcotics – Narcotic and psychotropic substances.

Hazardous Chemicals – Toxic Industrial Chemicals/Materials (TIC/TIM).

Chemical Warfare Agents – Includes blister, blood, nerve and choking agents, and precursors.

- MIL-STD-810G rugged.
- IP68 rated for easy decontamination.
- Connectivity (USB, WiFi).

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.



MUVE™ C360

The FLIR MUVE C360 is a multi-gas detector completely integrated with an unmanned aerial system (UAS) to provide real-time continuous monitoring of chemical hazards while on the move.

The sensor block boasts 8-channels, which includes a photoionisation detector (PID), Lower Explosive Limit (LEL) detector, and five other electrochemical sensors.

The MUVE C360 sensor block quickly latches to a proprietary integration dock mounted to the UAS. The FLIR calibration station features the same dock, so the operator can easily connect for routine sensor verification. Sensor readouts are prioritised based on alarm conditions and are displayed realtime through the pilot's user interface.

The MUVE C360 is a time-saving, game-changer for emergency responders, industrial safety officers, and environmental monitoring experts.

- Analyse air quality surrounding active scenes prior to entry.
- Select proper PPE before entering scene.
- Locate leak source and track incident progression.
- Cover difficult terrain from the air to assess hazards.
- Quickly draw a perimeter to assess and map hazards.
- Preset alarm thresholds to make quicker decisions on-scene.
- Understand the flow of hazardous vapours at the source, but also in the air.

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 Fido 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).
- Training completed in less than 1 hour.







Fido® X2

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.

- TrueTrace detection in ≤10 seconds.
- Detects broad range of threats.
- Quick three-minute start-up.
- Rapid clear-down in seconds.
- Intuitive, go/no-go alarms.
- On-screen guided operation.
- On-device video training.
- Ultra-lightweight <680 g.
- Reusable sampling swipes.
- No radioactive ionisation source.
- No hazardous chemicals.



Fido X4 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.

TrueTrace detection in ≤10 seconds.

- Detects broad range of threats.
- Quick three-minute start-up.
- Rapid clear-down in seconds.
- Intuitive, go/no-go alarms.
- On-screen guided operation.
- On-device video training.
- Ultra-lightweight <680 g.
- Reusable sampling swipes.
- No radioactive ionisation source.
- No hazardous chemicals.



Explosives

Progeny ResQ CQL

A robust, efficient and effective tactical tool for bulk screening of military and civilian explosives, IEDs, precursors, this easy to use handheld device is perfect for collecting data even in the most challenging conditions.

- Eliminates fluorescence interference (1064nm benefit).
- On-board camera (enhance your incident reporting!).
- Automatic precursor warning (4C combination warning of potential precursors).
- Non-visible sample detection (via integrated trace detection colorimetrics – Optional QuickDetect Mode).
- Measure through coloured packaging without sample preparation.
- MIL-STD-810G rugged.
- IP68 rated for easy decontamination.



device capable of detecting trace levels of explosives.

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

- Fast start up time.









Tetracore's C2T Sample Preparation Swab is an all-in-one sampling system which is ideal for use by first responders with the BioThreat Alert® strips.

with the BioThreat Alert® strips and the T-COR 8™ Multiplex assay cartridges.

T-COR 8[™] Polymerase Chain Reaction (PCR) technology

Polymerase chain reaction (PCR) testing is a commonly used technique in molecular biology to identify and quantify bacteria and viruses via amplification of DNA, using thermal cycling to perform the amplification. PCR can be performed in real time (RT-PCR), allowing users to view data whilst it is being acquired.

It is an extremely sensitive technique for biological materials containing a significant quantity of DNA, such as bacteria, making it highly applicable to the detection and identification of biological warfare agents including:

BW C2T™ Anthrax Multiplex Assay (pX01, pX02, Vaccinia, Internal Control)

BW C2T™ Multiplex Assay (Burkholderia, SEB, Bot, Internal Control)

BW C2T™ Multiplex Assay

(F. tularensis -Tularemia; Yersinia pestis -Plague; Brucella; Internal Control)

BW C2T™ Multiplex Assay (Ricin, Abrin, Internal Control)





T-COR 8

The Tetracore T-COR 8 Real-Time PCR Thermocycler analyses potential threats for the rapid confirmatory analysis of biothreats and highimpact veterinary diseases. In less than an hour, the T-COR 8 allows first responders in the field or scientists in the lab to confirm the presence or absence of a biothreat.

BioThreat Alert™ Singleplex Test Strips

The best defence option for rapid, on-site screening of unknown biological threats.

LFA strips currently available:

Anthrax, Ricin, Botulinum Toxin (A&B), SEB (Staph Enterotoxin B), Abrin, Orthopox, Brucella, Plague and Tularemia.

Proficiency test kits are also available for training.

BioThreat™ Alert Multiplex Test Strips

The bacterial strip can detect the following: Anthrax, Plague, Tularemia and Burkholderia.

The toxin strip can detect:

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









MUVE™ B330

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.



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.



Radiological / Nuclear

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.

- Detects X-rays and gamma rays from 33/48 keV - 3 MeV (model dependent).
- One touch operation.
- Easy to read large Amoled display screen displaying dose rate, accumulated dose and animated silhouette indicating dose received.
- Multiple languages.
- Multiple users.
- Waterproof up to 1 m.

PED-IS

This intrinsically safe PED is perfect for both radiation specialists and those who do not work with radiation every day. Robust and reliable, it is safe to use in potentially explosive areas, making it ideal for challenging environments.

PED-

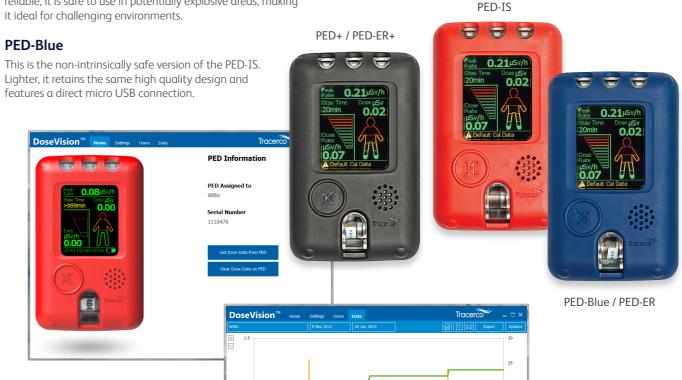
An advanced version of the PED-Blue, it can be used as both a PED and a hand held dose rate survey meter. The PED+ has a number of added features, such as Bluetooth, GPS and pop-up message alarms.

PED-ER

The PED-ER's extended dose rate range of 1 Sv/h (100 R/h) and an energy range of 48 KeV to 3 MeV, provides perfect radiation dosimetry for nuclear medicine environments.

PED-ER+

Featuring an extended dose rate range of 1 Sv/h (100 R/h) and an energy range of 48 KeV to 3 MeV, the PED-ER+ allows the user to measure radioisotopes which could not have been measured previously. Lightweight, waterproof and compact, the PED-ER+ provides the perfect radiation monitoring solution for those working in challenging environments.



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.

MIRION

- 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.



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.
- >900hrs battery life.



RDS-32[™] Survey Meter

The RDS-32 is a survey meter that 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.

The RDS-32 Survey Meters are small hand-held, battery operated radiation survey instruments. Due to its versatile functions and durability it is suited for a wide range of applications in civil defense, industrial use, nuclear power plants, laboratories, etc.

The meter features excellent ergonomics; lightweight and easy handling, with visual, audible, and vibration functions.

Each meter includes an additional battery cover with belt clip to make it wearable, freeing the user's hands to focus on their primary job.

With both Warning and Alarm levels users can know when they are approaching their limit without constantly monitoring their device and can act accordingly.

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.
- 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.





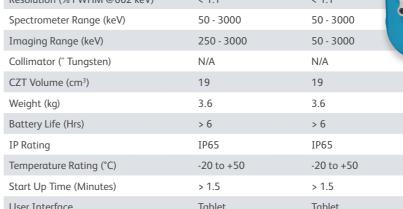


The H3D® H420 is a fast, portable, and easy to use imaging spectrometer optimised for identification and localisation of gamma-ray sources.

- 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.

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









A400 Hand-held Radiation Identifier

The H3D® A400 is a new directional RIID featuring a large CZT crystal offers:

• Practical high-performance gamma-ray spectrometer. Compact and portable.

Designed to exceed ANSI N42.34.

• Real-time 360° isotope-specific directionality.

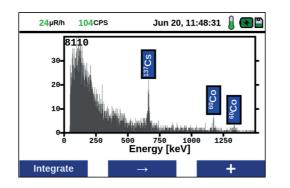
• Industry-leading efficiency with over 19 cm³ pixelated CZT.

• No cryogenic cooling required.

• Real-time isotope detection and identification.

- Embedded user interface with one-handed operation.
- Storage case included.
- Removable battery.
- Wireless connectivity.
- Network webpage interface for mobile devices.

Model	A400
Resolution (% FWHM @662 keV)	< 1.0
Spectrometer Range (keV)	50 - 3000
CZT Volume (cm³)	> 9
Weight (kg)	22.5
Battery Life (Hrs)	8
IP Rating	IP67
Temperature Rating (°F)	-4 to 122
Start Up Time (Minutes)	< 1.5
User Interface	Embedded Screen



identiFINDER R300 Providing the highest detector resolution available

identiFINDER R200®

A rugged, pager-sized Spectroscopic Personal Radiation Detector (SPRD), it 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.

- Pager-sized and wearable.
- SiPM technology with CsI provides ≤ 7.5% resolution.
- ≥ 36-hour battery life, plus additional 18-hour replaceable battery.
- Internal web server for easy data retrieval.
- Single-hand operation with three-button control.
- Common user interface with other FLIR radiation detectors.
- Crisp, clear display in full sunlight and low light conditions.
- No consumables or user maintenance.
- iOS/Android apps available.
- OneTouch Reachback.
- A neutron option is available.



in a pager-sized device, the R300 virtually eliminates the false alarms and false positives that are so common to personal radiation detectors.

- Transflective colour display.
- 24 hour battery life.
- IP63 compliant enclosure protection.
- Data storage for up to 600,000 identifications and spectra and over 1 million alarms.
- Designed to meet ANSI N42.48.
- Standard ANSI N42.42 data output format as preferred by triage teams as well as the government and scientific communities.
- Designed and built to meet the most rugged field environments.
- Easy to read display, even in bright sunlight.
- Ease of use in high background environments.
- · Highly reliable, accurate results.
- Small enough to be carried on a belt or in a pocket.
- Almost identical user interface with other FLIR radiation detectors.
- No consumables and maintenance intervals of 5 years.
- Configuration and data download through a standard web browser. No need for a dedicated PC software.
- A neutron option is available.



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.
- Wireless Communications This in-built feature enhances interagency standardisation, improving response options.
- A neutron option is available.







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 making.
- IP67-Rated The R440 is protected from 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.
- 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.
- Wireless Communications This in-built feature enhances interagency standardisation, improving response options.
- A neutron option is available.

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 inegrated 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.



Radiological / Nuclear

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 & 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, countrate 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).

SPIR-Pack

The SPIR-Pack is a backpack device which provides discrete search and identification of radiological and nuclear materials. It is also a powerful tool for mapping of contaminated areas that may be difficult to access by vehicle.

The SPIR-Pack is based on the 'detection by identification' concept, which limits alarms to cases of real threats only while filtering out any false alarms generated by background variation or anomalies such as medical isotopes. It is a high performing system for heavily shielded and complex masking scenarios seen in radiological security endeavours.

- Human portable radiation detection system.
- Real-time mapping.
- Hand-free operation.
- Discrete monitoring in densely populated areas or crowds during events.
- Instant identification of complex scenarios of masking and/or shielding.
- Direct confirmation of the detection and the nature of the threat.









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.

- Real-time, instant detection, measurement and identification.
- Wide dose rate range: from natural background to high accident levels.
- Light and robust.
- Simple and fully automated use.

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, homeland 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.



MIRION TECHNOLOGIES SPIR

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





TSA VM250 Automatic Vehicular Traffic Screener

The TSA VM250 automatically screens vehicular traffic without the need for frequent calibration.

High sensitivity allows the VM250 to be used at locations such as uranium enrichment plants, weapons manufacturing and storage plants, nuclear laboratories, and nuclear waste disposal and storage sites where detection of Special Nuclear Materials (SNM) is essential. The VM250 is designed for use in harsh environmental conditions.

- Portal monitor for vehicles.
- Continuously screens moving traffic.
- High throughput.
- Cost effective.

Portal Monitor

A customisable system for vehicle and freight radiation monitoring.

- Permits throughput speeds up to 20 mph (30 kph).
- Gamma and neutron sensitive.
- NORM discrimination.
- Very low false alarm rate (1:15,000 typical).
- Fully digital systems design.



Radiological / Nuclear

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 $\boldsymbol{\alpha}$ 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.

ISO Certified

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.

All our products are CE marked.

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