NATS
North AmericanTechnical Services
Bridging Technology

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Chemical Radiological & Explosive

Detection Solutions for First Responders

North American Technical Services

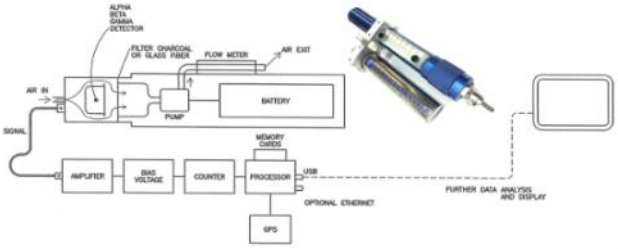
Bridging Technology

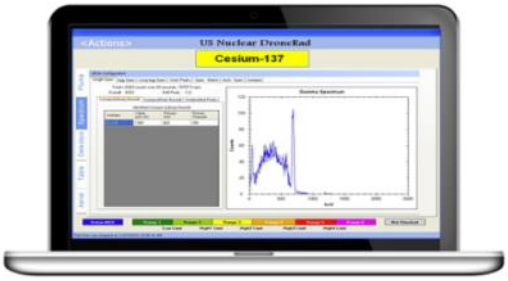
Innovative Solutions in Radiation, Chemical, and Explosive Detection

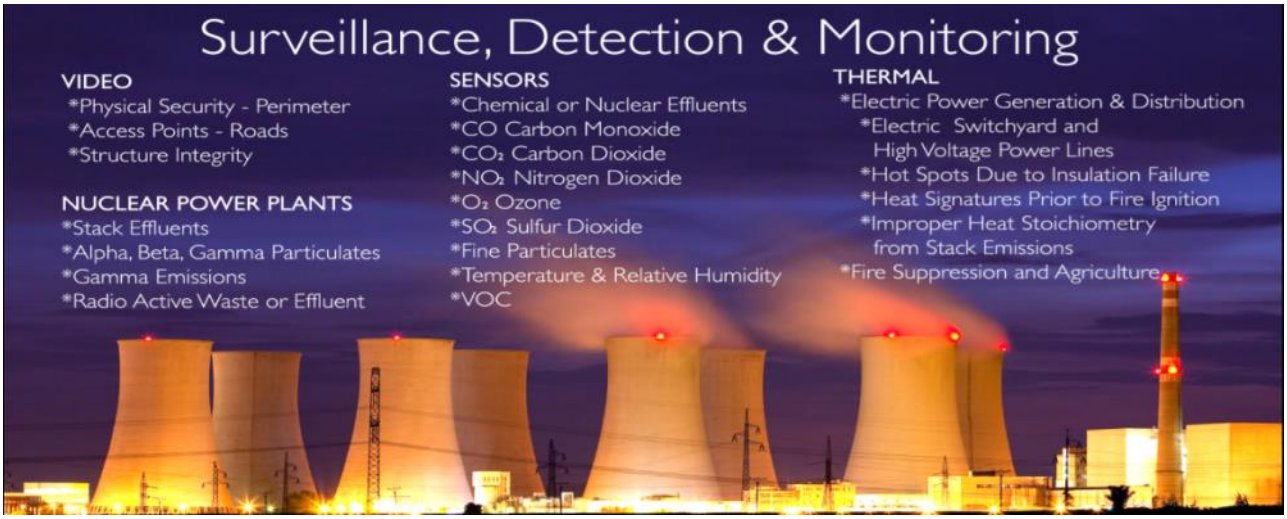
DroneRAD

Aerial Radiation Detection Sytems

*Alpha, Beta, Gamma, Neutron, C-14 sensors transmit data wirelessly to the base station
*Additional sensors can detect airborne chemicals and biological contaminants.
*GPS mapping provides location precision
*Robotic operation protects the operator while obtaining real-time data.



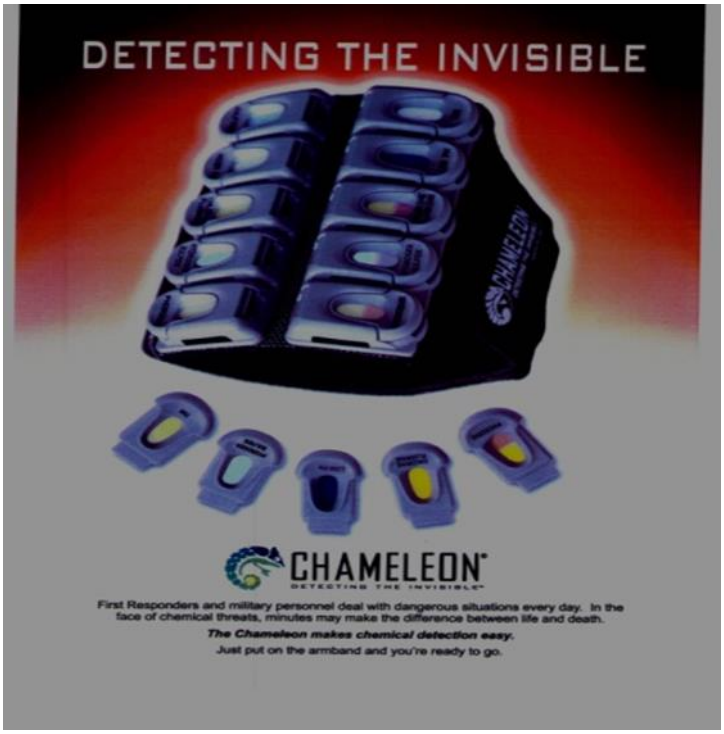




Products for Toxic Chemical Detection

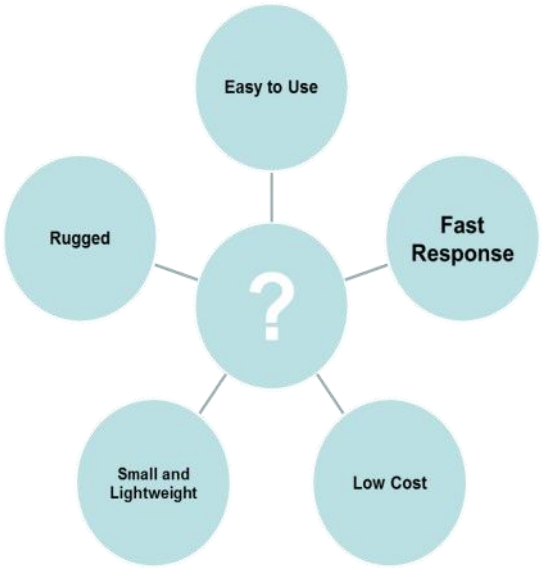
Chameleon Chemical Detection Armband

The Chameleon is the most innovative hazardous chemical detection device on the market today. It has revolutionized simple color change technology and made it rugged to meet the needs of First Responders and military personnel under real-life conditions.



Types of Chemicals Detected:

- Acid (low pH) gases
- Ammonia
- Basic (high pH) gases
- Chlorine/Fluorine
- Diborane
- Hydrazine
- Hydrogen Cyanide
- Hydrogen Fluoride
- Hydrogen Sulfide
- Iodine
- Nitrogen Dioxide
- Phosgene
- Phosphine
- Sulfur Dioxide



Products for Gas Analysis

IQ-1000 Portable Gas Detector

Mega-Gas Sensor detects over 100 toxic/combustible gases! Microprocessor controlled unit maintains a library of setup and calibration data for all gases, ready for your selection. No conversions or guessing! "Gas Search" feature allows you to quickly determine if any of the 100+ gases are present. Additional Solid State, Electrochemical, and Catalytic Bead Sensors provide increased selectivity. IQ-1000 accepts and simultaneously displays the readings of up to 4 sensors. Optional data logging allows storage of months worth of data which can be sent to a printer or PC. "Einstein" data management PC software included.

Z–Nose Portable Gas Chromatograph

The Z-Nose Model 4600 is a completely portable GC/SAW with an internal controller and simple operating steps for automated results.

The 4600 is designed with an internal helium cylinder (refillable), and con also use disposable helium cylinders. The lithium ion battery is rechargeable, typically lasting 4 hours.

- **Remarkable speed**
- **Small footprint**
- **Can detect and analyze accurately organic, biological & chemical compounds in real time**

TraceX Explosive Detector

The TraceX hand held explosives detector is easy-to-use, quick and reliable. With just one swab, TraceX lets you test for all major explosive chemicals and their precursors. TraceX explosives detection device 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.

What types of chemicals does the TraceX detect?

Home Made Explosive (HME) Family	Representative Chemicals
Nitroaromatics	TNT, DNT, Tetryl
Nitramines & Nitrate Esters	RDX, HMX, PETN, EGDN, NG
Inorganic Nitrates	urea nitrate, ammonium nitrate, black powder
Chlorates & Bromates	potassium chlorate, potassium bromate
Peroxides	TATP, HMTD
Acids	nitric acid, sulfuric acid, citric acid
Bases	potassium hydroxide, sodium hydroxide

Product for Radiation & Chemical Protection

Chemical Protection Suit

Level A Chemical Protection Suit

Level A represents the greatest danger of respiratory, eye or skin damage from hazardous vapors, gases, particulates, sudden splash, immersion or contact with hazardous materials. It calls for total encapsulation in a vapor tight chemical suit with self-contained breathing apparatus (SCBA) or supplied air and appropriate accessories.

- **Tychem LV fully encapsulated, vapor-protective suit (Level A)**
- **Expanded back, sealed seams inside and out, 48" zipper**
- **Storage bag included. This garment offers Level A protection.**

NATS offers a wide variety of chemical suits, gasmasks, and protective clothing.

Radiation Protection Suit

The Radiation Protection Suit is a full body suit complete with an integrated hood, heat sealed seams, and seam seal tape for added protection. The suit was engineered to provide protection during the evacuation of a dirty bomb. Due to advanced molecular design, the Demron™ coverall allows for better heat dissipation than other impermeable protective fabrics, providing the user with a cooler core environment. The suit is an excellent shield of high energy beta particles, such as those emitted from Strontium-90, and provides at least 50% shielding of gamma rays up to 130 Kev.

Products for Radiation Detection

First Responder Kit

The First Responder Kit packages all the basic radiation measurement tools you're likely to need to handle a radiological emergency into a convenient carrying case to facilitate a quick response when required.

This kit includes a:

- **Ratemeter/Scaler**
- **GM Pancake Probe**
- **High Sensitivity Gamma Scintillator**

RT-D300 Electronic Personal Dosimeter

The RT-D300 | Electronic Personal Dosimeter is a next-generation all-digital electronic personal dosimeter that combines four functions in one:

- **Dose Equivalent Rate Meter**
- **Accumulated Dose Meter**
- **Active Self-Reading Dose Meter**
- **Active Self-Alarming Dose Meter**

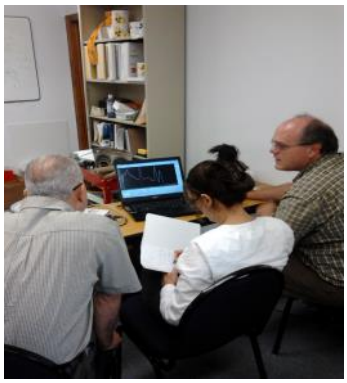
NATS offer a wide range of dosimeters, radiation detectors and area monitors.

SAM 945 Isotope Identifier

The all-in-one, RIID offers customers a rugged alternative to detachable detectors with a full suite of new features leveraging modern cell phone technology. And offers a free app that manages the data and reporting of the SAM 945, and boasts a comprehensive library of 115 isotopes with expansion possibility to 393 isotopes.

WHY NATS?

- **Single Source for accumulated knowledge of over dozen Manufacturers & Designers of Radiation and Chemical Detection Systems**
- **Ability to offer multiple solutions objectively without bias towards a specific system**
- **Worldwide network**



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