

# SIMULATION

training systems  
for radiological detectors



Argon Electronics provides simulation training instruments for radiological incident instructors that allow you to safely teach critical search, reconnaissance and survey skills as well as response to radiation contamination, decontamination and cross contamination. Our product range includes generic survey training instruments, dedicated simulators for specific radiological instruments and simulation probes for use with real detectors. In response to the continual development of new detectors Argon's integrated technology platform allows us to respond to your changing requirements for simulators, including radiological isotope identification devices.

Safe simulation of radioactive sources enables you to ensure that trainees can realistically learn how to correctly use real detectors with confidence, and without risk to personnel, equipment or the environment, even in public areas. Our new Plume SIM system further enables instructors to set up and control collective instrumented wide area radiation exercises, with release of individual or multiple plumes and remote activation of multiple instruments at the click of a mouse.

Developed in consultation with detector manufacturers and radiation professionals, our radiation simulation products offer you the ability to ensure that your investment in radiation detection instruments is optimised and that your response teams are ready.

# World Leaders in CBRN, Gas and HazMat simulation



## Designed for use by

- Military and Civil Defence organisations
- Emergency responders
- Radiological Protection Advisors
- Customs and Coast Guard agencies
- Medical facilities and Health Care agencies
- Nuclear facilities and Health Physics groups
- Environmental Protection agencies
- National and international regulatory bodies
- Non Destructive Test and Educational facilities

## Safe simulation of alpha and beta radiation sources

The RADSIM DS1 and UAP-1 respond to the electronic simulation of alpha and beta particles by permanent magnets which are sealed within flexible plastic pouches. These can be hidden under objects or in the clothing of personnel to effectively simulate contamination. Partial and full decontamination is simulated electronically by a simple instructor remote that gives you total control of your exercise. This powerful feature lets you determine the effectiveness of decontamination drills by allowing you to simulate residual contamination should you be dissatisfied with the performance of a student in following the correct decontamination procedures. A touch sensor simulates probe contamination.

The RADSIM D-SIM and ADM-300 SIM-P respond to fluorescent liquid and powder simulants based on well known safe substances (safety data sheets available on request). This highly effective technology lets you easily simulate contamination and decontamination of both solids and liquids. An independent report with application examples on the use of the D-SIM system for providing enhanced training in detection and cross contamination potential is available separately from our website.

## Safe simulation of gamma radiation sources

The RADSIM SS-1 responds to the electronic simulation of gamma radiation by ultrasound. With nine adjustable power levels and a range of 30m, you can train for numerous scenarios, developing skills in survey and location, isodoserate mapping, shielding and safe demarcation. Both directional and non-directional sources can be simulated.

## Cost effective training

Everything you need to set up your training exercise is supplied, including power supplies and simulation sources. Argon simulation systems require no preventative maintenance and spares are minimized to ensure a low cost of ownership. Expensive damage to real detectors is avoided and your equipment is kept ready for operational use when needed.

Product data sheets for individual simulation instruments are available to download from our website, or will be supplied in hard copy on request.

A free CBRN Training Equipment Guide on CD-ROM is also available on request.

## Contact us:

Argon Electronics LLP  
Unit 16, Ribocon Way  
Progress Business Park  
Luton, Bedfordshire  
LU4 9UR

Tel: +44 (0)1582 491616  
Fax: +44 (0)1582 492780  
E-mail: [sales@argonelectronics.com](mailto:sales@argonelectronics.com)

[www.argonelectronics.com](http://www.argonelectronics.com)



© Argon Electronics LLP 2007