ARGON | CBRNe/HazMat training systems

DT616-SIM

Argon's DT616-SIM simulation training probe for the AN/PDR-77 and RDS-100 systems

The DT616-SIM is a high-fidelity Beta/Gamma radiation training simulator designed for use with Mirion/Canberra AN/VDR-2, PDR-77, RDS100, and CDV 718 survey meters.

This innovative simulator allows trainees to experience the full operational functionality of the DT616 probe without the need for live radiation sources, ensuring safe, compliant, and practical training for critical radiological scenarios.

DT616-SIM responds to safe electromagnetic and magnetic sources that simulate beta and gamma radiation, with very realistic simulation of shielding and inverse square law, removing regulatory, administrative, environmental, and health and safety concerns for you and your students. You can use the simulation sources anywhere, including within public buildings. DT616-SIM is compatible with the Argon PlumeSIM system for wide area tactical field and nuclear emergency response exercises enabling you to ensure everyone knows what to do when that emergency comes.

Simulation Gamma sources can be detected at a distance of typically 60 metres (200 feet) in free space with very realistic simulation of inverse square law response and shielding effects.

Instructor Remote Controller enables you to simulate partial and full decontamination in addition to simulation of probe failure

The DT616-SIM* system probe for training in the use of the:

- RDS-100 radiac meter with the RDS-100GP probe
- AN/PDR-77 radiac meter with the Beta/Gamma probe

*The DT616-SIM can also be used with the AN/VDR-2 radiac meter to simulate the DT616/VDR-2 probe.

Simulation beta source for decontamination training

Simulation beta/gamma sources can be detected to a range of up to 60 metres (195 feet) in free space

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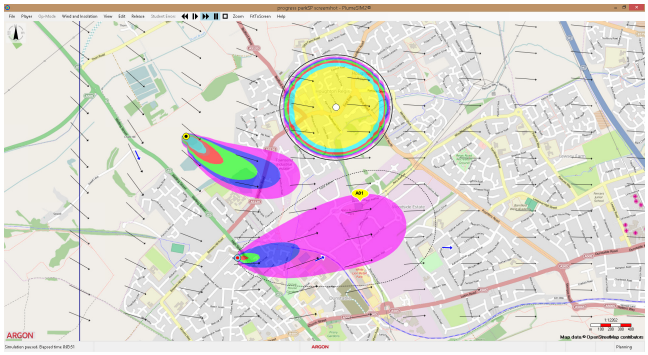
Training with DT616-SIM simulation probe

DT616-SIM permits radiological incident instructors to safely teach critical search, reconnaissance, survey/ location and decontamination skills as well as a practical understanding of inverse square law, isodoserate mapping, shielding and safe demarcation.
Whilst the DT616-SIM receives an encoded signal representing specific gamma emitting radionuclides from deployed electronic simulation sources, it also responds to magnetic simulation sources that simulate beta sources for training in contamination, cross-contamination and decontamination.
An instructor remote controller (IRC) is provided in order to simulate the effects of partial or complete decontamination when using magnetic simulation sources, or to simulate probe failure.

PlumeSIM- Simulation of wide area tactical and emergency response field exercises

The DT616-SIM system is compatible with Argon's PlumeSIM system. PlumeSIM enables real time instrumented wide area operational training exercises to be conducted using single or multiple simulation device types that respond in the real world to multiple virtual radiation or chemical hazard release events.



Cost effective training

DT616-SIM probes are powered by the same battery supply as the real radiac meters to which they are connected. The simulators require no preventative maintenance or recalibration, reducing the cost of ownership. Expensive damage to real detectors is avoided which means operational readiness is maintained.

Training in the use of complementary equipment types with common simulation sources

Argon simulation systems enable realistic simultaneous training in the use of different types of radiation detection instruments. The DT616-SIM system is compatible with other dosimeter, survey/radiac meter, and spectrometer simulators manufactured by Argon Electronics, permitting multi-detector, multi-isotope training to take place within the same scenario.
You can even optionally include hazardous substance releases including chemical warfare agents to drive HazMat / CW simulation detectors.

DT616-SIM can be used with AN/PDR-77 and RDS-100 radiation meters.

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