

Tracerco™ PED+ SIM

Radiation Training Simulator

The Tracerco™ personal electronic dosimeter (PED+) simulator (SIM) responds to Radsim™ electromagnetic sources that safely simulate ionizing radiation eliminating regulatory, environmental, and health and safety restrictions associated with real sources. The simulation sources can be used in the open or within buildings.

The look, feel and response of the PED+ training simulator is extremely close to the actual detector. Even the effect of user body shielding to determine source position is realistically simulated ensuring survey teams understand what to do when that emergency comes.

High impact training fidelity

To enable the ultimate training experience, all user interface components (display, switch panel, sounder and vibrator) are exactly the same as the real detector. Response speed and characteristics are very similar to the real detector permitting realistic source search / find training to be provided.

Simulated sensitivity enables the Tracerco™ PED+ SIM to detect the Radsim™ GS4 simulation Gamma source at a free space distance of typically 200 feet (60 metres) distance line of sight.



Consistent and repeatable

Powerful proprietary signal processing ensures simulated readings are repeatable each time students revisit the same scenario location and also ensure the readings observed on different simulators are within the accepted tolerances of actual detectors; all contributing to the provision of high-quality training.

The effect of user body shielding to determine source position is realistically simulated ensuring survey teams understand how to use and interpret detector readings and alarms effectively.

Low cost of ownership

No preventative maintenance, calibration or consumables are required ensuring whole life cost of ownership is minimal, expensive damage to real detectors is avoided and operational readiness is maintained.

Key features:

- Inverse square law ($1/r^2$) response within real detector tolerance
- Simulation of user body shielding for source location
- Realistic representation of different shielding effects
- Selectable units of measurement (Sv/hr, Rem, CPS)
- Same human interface as real Tracerco PED+
- Configurable menu settings
- Dose and dose rate alarm settings
- Language selection
- Same battery as real detector (approximately 36 hours standard operation, 150 hours operation in screen saver mode)
- No regular calibration
- No preventative maintenance

PlumeSIM compatible

PED+ SIM is compatible with PlumeSIM™, Argon's proven Live Field and Tabletop CBRN exercise system. PlumeSIM™ enables real time instrumented wide area tactical field and nuclear / HazMat / Chemical Warfare emergency response exercises to be conducted using single or multiple simulation device types that respond in the real time to simulated hazards.



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