

## RADSIM

### Argon's highly realistic simulation Gamma source



**The Radsim series of highly realistic simulation gamma radiological sources overcomes the regulatory, financial and administrative burden of live radiological source based training scenarios in an entirely safe, environmentally friendly and cost effective manner.**

Create "Live Source" like radiological survey exercises to enable your survey teams to experience:

- Dose rate and Dose readings that trigger personal safety actions and the provision of recommendations leading to effective decision making.
- Alarms indicating potentially hazardous radiation levels.
- Inverse square law (1/r<sup>2</sup>) response.
- Shielding effects of different materials.
- The importance of using shielding for personal dose reduction.
- Consistent readings across instruments each time the student revisits the same location within the exercise.

#### Implement lifelike scenarios

Create innovative search exercises by placement within wooden crates or plastic containers. Hiding the simulation source within the boot / trunk of a vehicle is easy and creates a very impressive scenario.

Even though the vehicle body is made of a metallic material not only is the simulation source detectable at typically 10 metres (33 feet) distance; students

can survey the vehicle to determine the location of the simulation source within the boot / trunk facilitating excellent vehicle search, checkpoint or road traffic accident exercises.

The same shielding effect is demonstrated by hiding the simulation source in a metal filing cabinet or a refrigerator. Placing the Radsim source within a back pack supports highly realistic man portable sources representing medical or illegitimate sources for crowd monitoring or specialist "rabbit" prevent exercise scenarios.

#### Penetrate walls, floors and ceilings

Place the source on one specific level within a multi floor building and students will obtain readings through the ceiling if the source is above and through the floor if the source is below, the physical barrier reducing the readings. The same shielding effect is created by adjacent room walls or from outside the building.

#### Multiple activity levels

Ten simulated activity levels to enable you to represent a large variety of scenarios.

Activity levels can be customised for specific applications. Instructors can select the simulated level of activity and place the source as desired with ease in minutes without any safety or regulatory concerns.

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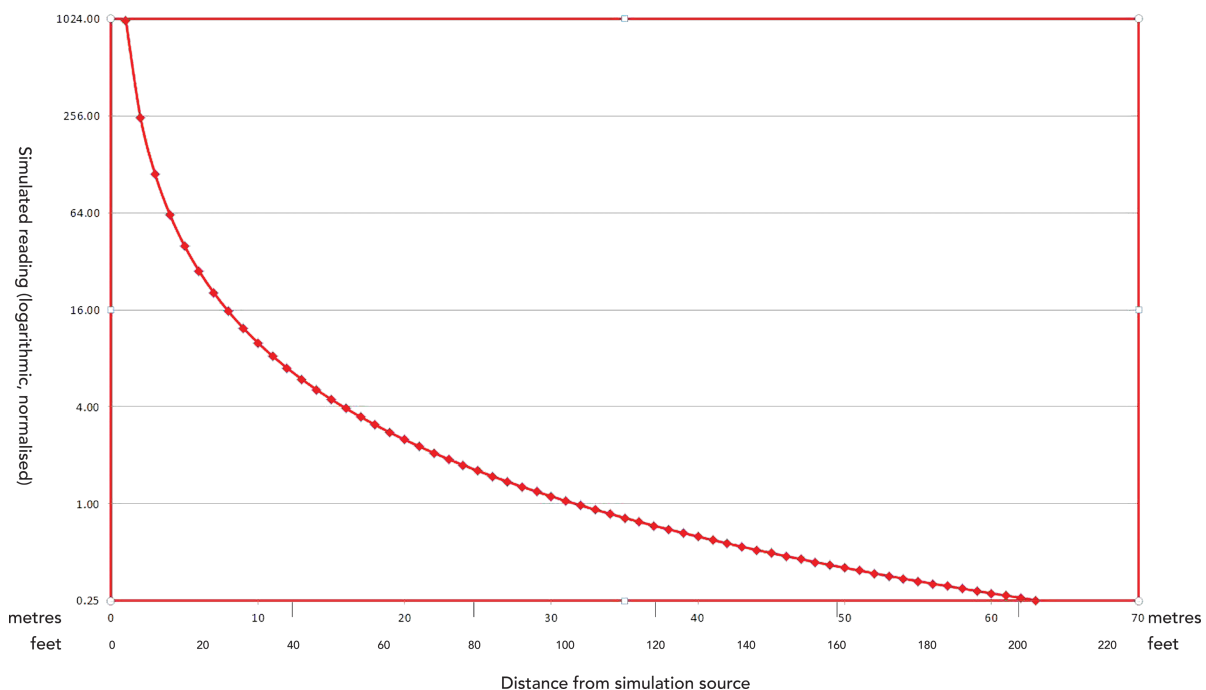
### Isotropic emission

The near isotropic source can be detected to a distance of up to 60 metres (200 feet) free space with a standard sensitivity simulation detector and 90 metres (300 feet) free space with a high sensitivity simulation detector enabling students to appreciate the difference in detector response sensitivity and characteristics.

### Cost effective alternative to live sources

Radiological sources are very expensive to purchase and ultimately dispose of at end of life. The administrative tasks associated with the acquisition / registration, storage, transportation, deployment, regulatory compliance and disposal of radiological sources are eliminated.

Easy to store, transport, use and deploy Radsim series sources and Radiological survey meters, dosimeters and spectrometry simulators provide you with the most realistic radiation training capability available.



Normalised simulated detector response to the simulation source in free space. Readings will reduce depending upon shielding presented between the simulation source and simulation detector. Standard simulators can detect the simulation source at a distance of typically 60 metres (200 feet) while high sensitivity simulators detect the simulation source at typically 100 metres (325 feet).

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