



RadSolver™

A High Energy Resolution RIID

RadSolver™ is based on **ScintiClear™** detector—a new high-performance $\text{SrI}_2(\text{Eu})$ -based gamma-sensitive scintillator. With excellent energy resolution across 20keV – 3MeV energy range, high stopping power, and the absence of internal activity, ScintiClear heralds a new era in rapid and accurate identification of complex isotope mixtures in small volumes and shielded containment. RadSolver is a rugged RIID with state-of-the-art nuclide identification software, approved by the IAEA community and widely used in demanding environments all over the world.



Specifications	RadSolver™ RIID
Gamma radiation detectors	ScintiClear Ø46x26 mm GM-tube
Neutron radiation detector	$^6\text{LiF}/\text{ZnS}$
Gamma radiation energy range	20 keV-3 MeV
Radionuclide identification	Exceeding ANSI N42.34-2015 requirements
Typical energy resolution	3.0% at 662keV 2.2% at 1333keV
Sensitivity to gamma radiation	^{137}Cs – 9 cps/ $\mu\text{R}/\text{h}$ ^{60}Co – 6.7 cps/ $\mu\text{R}/\text{h}$
Protection class	IP65: Fresh-water-resistant, splash-proof, dust- and sand-proof
Operating Temperature	-4 °F to +122 °F -20 °C to +50 °C
Relative air humidity	≤95% (non-condensing)
Continuous run time	18 h
Connection to PC	USB, Bluetooth
Overall dimensions, Weight	9" x 4.5" x 7", 4.2 lbs 230x115x177 mm, 1.9 kg

- Priced to compete with standard medium resolution (NaI) RIIDs
- Unambiguous and fast identification in heavily shielded and complex SNM masking scenarios
- Automatic adjustment to changes in background radiation levels
- Sourceless gain stabilization and automatic temperature compensation
- Operation with minimal training
- Audio, visual, earphone, vibrator and LED alarm notification
- One-hand operation
- Proven operation in harsh environments
- Instrument-to-PC data exchange over USB and Bluetooth interface
- Optional live data transmission and reach back
- Optional automatic tagging of scanned data with GPS information