

# ORTEC<sup>®</sup>

**Point** TRADING  
Technology First

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## **RADEAGLE**

Next Generation Radioisotope Identification Device



Detection and Identification:  
Fast, Accurate and Easy

**AMETEK<sup>®</sup>**  
ADVANCED MEASUREMENT TECHNOLOGY

# RADEAGLE

**RADEAGLE** is a state-of-the-art handheld, radioisotope identification device (RIID) delivering superior speed and accuracy.

- Combining a large, high sensitivity crystal with an intelligent algorithm, the RADEAGLE can **quickly, accurately, and simultaneously detect and identify** four or more isotopes, typically in under 30 seconds, even in complex shielded or masked scenarios.
- **ANSI 42.34 compliant**, the RADEAGLE offers a **user-friendly interface** that is intuitive, simple to navigate, provides visually clarity, and utilizes an extensive array of alarms.
- Supports a **variety of scintillation crystals** including NaI(Tl), CeBr<sub>3</sub> and LaBr<sub>3</sub>(Ce) to optimize performance across multiple applications.
- Incorporating **decades of industry expertise** in detection and identification algorithms along with advanced hardware, electrical, and software systems, the **RADEAGLE is the handheld RIID of choice.**

## Key Customers and Applications

- ✓ First Responders and Emergency Management
- ✓ Customs and Border Protection
- ✓ Security and Military Forces
- ✓ Nuclear Safeguards
- ✓ Environmental Management and Cleanup
- ✓ Nuclear Medicine and Scientific Institutes
- ✓ Scrap Steel and Recycling

## Intelligent Algorithm – *Unparalleled Speed and Accuracy*

The RADEAGLE algorithm is unique, using a neuron ensemble to create a multi-agent system. This multi-agent system in turn uses a mimetic learning algorithm that adapts reference data to the unique signature of the detector's sensors. While continuously measuring background radiation, this "neuro-spectroscopic brain," delivers unparalleled speed and accuracy for detecting and identifying over 100 nuclides, exceeding ANSI 42.34 requirements.

