

The RADEAGLET-R nuclide ID functionality can be easily extended into alpha and beta surface contamination measurements when the InnoProbe handheld scintillation detector is added. The external detector connects directly to the RADEAGLET-R by USB. Pulse shape discrimination electronics separate and categorize Alpha and Beta energies detected by the thin-window scintillator detector. When connected to the alpha /beta detector the RADEAGLET-R user can expect 8 hours of operational working time.

RADEAGLET-R uses list mode acquisition and detection electronics to measure alpha count rates up to 25 kcps and 20 kcps for beta. A single USB cable connection to the RADEAGLET-R carries power and signals for the Alpha/ Beta detector.

HOT-SWAPPABLE HANDHELD DETECTOR, AUTOMATICALLY EXTENDS RADEAGLET-R CAPABILITY

The hot swappable Alpha and Beta InnoProbe can be attached/detached at any time during operation and is auto calibrated while powered over USB. After connection to the RADEAGLET-R, the external detector is recognized, and the system starts collecting count data. Count-based alarm limits for alpha and beta radiation can be easily customized by the user.

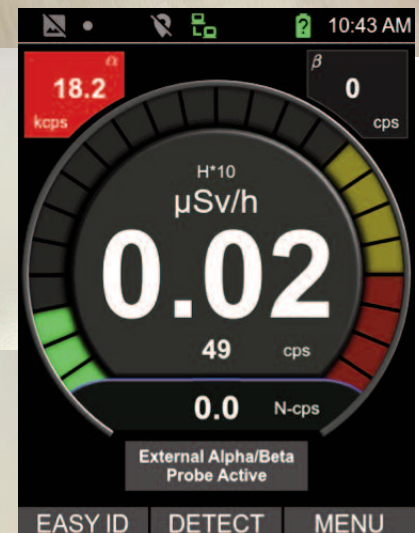
For Alpha/Beta contamination measurements, a light tight mylar foil window covered by a rugged hexagonal grid protects the light sensitive detector from surface contact damage and provides high detection efficiency.

SECURE CONNECTION

A rugged, waterproof connector and spiral cable connects the external detector and RADEAGLET-R and allows maximum freedom of motion when surveying smooth and uneven surfaces.

STURDY FRONT CAP

A plastic front cap keeps the detector face safe during transport and setup and whenever it is not in use.



INNOPROBE

Alpha/Beta Probe

Technical Specifications

Detector Type	Alpha/Beta sensitive scintillator including photomultiplier (ZnS:Ag)
Detector Size	ø50mm (2.0 in.)
Protection Grid	Mylar foil; Honeycomb protective grid
Working Range	25 kcps Alpha; 20 kcps Beta
Multi-Channel Analyzer	4096 channels energy vs 4096 channels width with a non-linear parametric window and Haykin adaptive optimization (PSD technology)
Communication	List-mode; USB interrupt mode transfer
Temperature Range	-30°C up to 70°C (-22°F to 158°F)
Processor	High-performance, low power FPGA subsystem coupled to DSP
Weight	300 g (0.66 lb.)
Size	169 mm (6.7 in.) x 68 mm (2.7 in.) Handle ø50 mm (2.0 in)
Voltage	5 V, USB-powered

Ordering Information

Model	Description
RTR-IP-2AB	Alpha/ Beta Scintillation detector probe, USB connection

Specifications subject to change
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