



Seedseeker

¹²⁵I Source Finder

www.carewise.com



CareWise

EXPERIENCE & EXPERTISE

A compact and ergonomic digital radiation source finder

Designed specifically for locating ¹²⁵I seeds, the Seedseeker provides the sensitive response needed for the monitoring of low-energy gammas emitted by iodine isotopes.

The meter is turned on-and-off by the trigger on the handle and overcomes many common issues associated with other meters such as excessive weight, cost, and fragility.

Introducing SiPM detectors

The Seedseeker uses a CsI(Tl) Silicon Photomultiplier (SiPM) integrated scintillation detector for a quick and sensitive response. SiPMs, being solid-state devices, exhibit resistance to shocks and vibrations resulting from frequent handling by users. They find widespread use in radiation detection and medical imaging systems.

Reduced size

The compact design involves thousands of micron-sized avalanche photodiodes (APD) arranged in a customised array to achieve optimal optical coupling with the Seedseeker's scintillation crystal. This reduction in size and weight is achieved without compromising counting efficiency.

Durable

Resistant to shock and vibrations caused by extensive handling thanks to solid-state technology.

Integrated detector

By using an integrated scintillation detector, it is a robust instrument that can withstand regular use in a busy department.

LCD Display

Clear backlit LCD display with count rate displayed in large clear numbers.

Smart averaging software

Smart averaging software ensures that a steady display can be read with confidence, whilst providing a quick response to ensure that seeds may be located with ease.

Lightweight

Weighs just 223 g.

Battery powered

Powered by two standard AA batteries.



Specifications	
Dimensions	170 (H) x 88 (L) x 72 (W) mm (6.7" x 3.5" x 2.8")
Mass	223 g (0.49 lbs)
Power Requirements	2 x AA Batteries (1.5 V each)
Sensitivity	¹²⁵ I is approximately 18,500 CPS/MBq (685 cps/μCi) at 25 mm, 1,950 CPS/MBq (72 cps/μCi) at 100 mm, and 250 CPS/MBq (9.3 cps/μCi) at 300 mm
Spatial Resolution (FWHM)	~180 mm (7.1") at 100 mm (4.0") from source (No collimation)
Background Count Rate	2-4 CPS for ¹²⁵ I
Detector Operating Voltages	SiPM based detector – 40 V
Default Discrimination Window Settings	Discrimination Window: 58.6 mV - 330 mV Pulse amplitude equivalent to ¹²⁵ I gamma emissions
Lower and Upper Detection Limits	Upper limit: 20,000 CPS (Over range)
Detector Energy (Gamma)	Optimised for ¹²⁵ I (35 keV)

Cableless

No cables mean it has increased durability and longevity.

Service and Support

Care Wise understand the need for outstanding services to minimise instrument downtime and maximise reliability. The most cost effective way to do this is through our service contracts, which include:

- Annual Preventative Maintenance (return to base) – Annual preventative maintenance checks on your instrument to ensure system reliability.
- 50% discount on parts and labour for repairs due to accidental damage.
- Protection against mechanical failures (repair at no cost) – Should your system suffer mechanical failure Care Wise will provide a full repair at no additional cost.
- Loan units at no charge should your components ever require repair (subject to availability) – Care Wise will send you a loan instrument whilst maintenance work is being carried out on yours to ensure there is no instrument downtime.



ISO Certified

Southern Scientific Ltd is certified to ISO 9001 and ISO 13485 representing the high level of quality assurance and management that we provide at every stage of the supply process, whether a product is distributed on behalf of our trusted manufacturers or constructed in our UK workshop. This accreditation means that our customers can place an order knowing that the delivered product will be suitable for its intended use, fully compliant with EU legislation and in full working order.

All our products are CE marked.

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