

Closer to your application

Lab Scout

Gamma radiation detector with nuclide identification**Applications:**

- to determine the weight-specific activity of natural and artificial radionuclides in material samples
- for monitoring measurements of food, building materials and ash from biomass power plants and much more

Features:

- spectroscopic resolution and a measuring range from 25 keV to 3 MeV
- 360° lead shielding to reduce background radiation and lower detection limits
- editable nuclide library, nuclide lists with up to 16 emission lines
- built-in balance to determine the weight-specific activity of the nuclide in the sample

Gamma probe

Detector type	sodium Iodide (NaI(Tl)) with integrated PMT and high voltage power supply, scintillation cristal 2" x 2" energy range 25 keV – 3 MeV resolution < 7,5 % (7 % typ.) @ 662 keV
Efficiency	net count rate 1100 cps / (µSv/h) based on Cs-137
Max. count rate	100.000 cps
Measuring range	0 ... 15 µSv/h (Cs-137)
Spectrum	1024 channels
Measurement/Analysis	identification of up to 16 peaks (nuclide list) creation of various nuclide lists from editable library determination of weight specific nuclide activity with flexible applicable efficiency calibrations
Stabilization	electronic stabilization of temperature Peak-Pickup by PSV algorithm

General

Scale	0...2,5 kg
Measuring cycles	1 min, 5 min, 15 min, 0,5 h, 1 h, 4 h, 12 h,
Data storage	2 GB SD-Card for more than 780.000 data records
Operation/Display	1 button, signal lights (red, yellow, green), 4x20
Acoustic Signal	80 dB
Interface	USB
Software	Labs Scout Works (analysis, calibration, configuration)
Environmental conditions	
Temperature	5...35 °C,
Rel. humidity	0...95 %, non-condensing
Power supply	15 V / 250 mA AC/DC adapter
Dimensions	200 mm x 220 mm x 520 mm
Weight	approx. 68 kg with lead shielding