

Technical Specification of Identifinder NG

Supply and demonstration of handheld portable and compact Identifinder NG with integrated MCA, preamplifier, spectroscopy amplifier, software, necessary accessories and hard carrying case with data acquisition system with suitable software to transfer data for analysis.

Features

Functions	Radio Nuclide identification, spectrum analysis, dose rate calculation, total dose display, source finding
Integrated detectors	Multi-channel Analyzer, PMT preamplifier, spectrometry amplifier, power supply
Integrated detectors	1.4" x 2" NaI (Tl) detector, GM tube for high dose rates

Spectrometry System Specifications

Detector type	NaI (Tl)
HV- Bias	50-1275 V selectable
Shaping type	Digital filter
INL, top 99%	<0.05%
DNL, top 99%	<0.1%
Spectrum length	1024 channels
Pileup rejection	400 ns, pulse pair resolution
Throughput rate	>50,000 cps
Input rate	>500,000 cps
Spectrum memory	50 spectra at 1024 channels
Real and live time presets	1s-1,000,000s

Dose/Dose measurement Specifications

Sensitivity (^{137}Cs)	>500 cps/ $\mu\text{Sv/h}$
Dose-rate range	10 nSv/h-1 Sv
Dose range	100 nSv-1 Sv or 10 μRem – 100 Rem
Energy range	NaI (Tl) : 20 kev-2.5 Mev GM: 60 kev-1.6 Mev
Alarm levels	Four preset levels

Special Features

Stabilization	Temperature stabilization; HV current stabilization, peak stabilization, Internal ^{137}Cs -reference source for stabilization
Calibration	Automatic energy calibration; Detector efficiency calibration; Automatic dose calibration
Language	English
Accessories	Rechargeable battery, External battery charger, AC adapter for stationary use, holster, carrying case

Display and Communication

Display type	Monochrome LCD 61mm x 43mm; backlight
Interface	RS232
Temperature range	-15°C to + 55°C
Protection	Water proof, dust tight

Data Acquisition System	Latest data acquisition system with suitable software for data transfer and analysis
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