

Thermo Scientific RIIDEye

Handheld Radiation Isotope Identifier

This product is available through:

JRT Associates

5 Nepperhan Avenue, Suite 2B
Elmsford, NY 10523
800-221-0111

Product Specifications

New Thermo Scientific Radiation Isotope Identifier for fast real time identification

Key Features:

- Superior performance for ID of low activities
- Patented QCC algorithm
- No integral Cs-137 source:
 - less false ID's
 - higher detection sensitivity for Cs-137 and shielded Am-241
- Weight balanced at mid point of handle
- Intuitive live spectrum with color coded peaks
- Integrated non He-3 neutron scintillation detector option
- High-resolution LaBr3 detector option
- Continuous gain stabilization
- Easy spectrum reach-back in ANSI N42.42 format
- Ethernet and removable memory card
- Two hand operation possible
- Commercial AA batteries

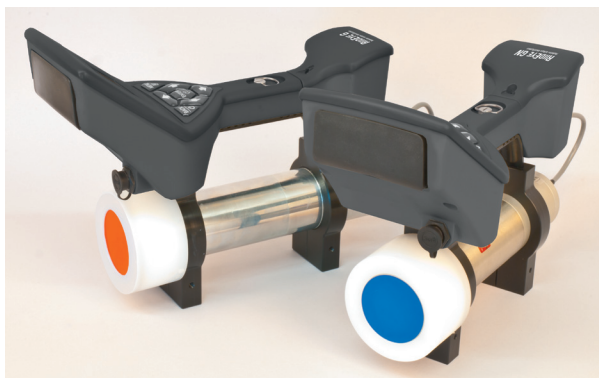


The Thermo Scientific RIIDEye is an advanced and very intuitive isotopic identifier providing real time gamma source identification using the patented QCC-technology. Continuous handheld operation is made easy and convenient by virtue of a design that is weight balanced at mid point of the handle.

The RIIDEye can very efficiently be used by security officers with little experience in radiation measurement. Getting familiar with the instrument is easy. Soon the unique features of the instrument can be leveraged in order to speed up the measurements and improve the quality of the derived results.

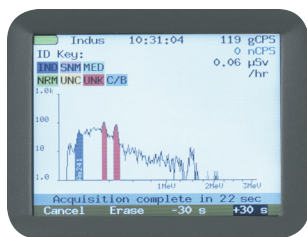
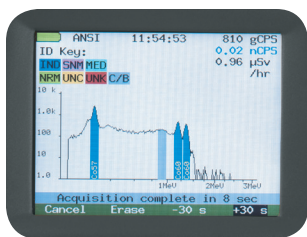
E.g. obvious identifications are already displayed as color coded energy peaks in real time - while taking a spectrum – resulting in significant time savings for certain measurement scenarios.

All spectra are stored on a removable compact flash disc - time and date stamped. Thus processing and transmitting those files for further analysis is very easy. The scope of delivery includes a copy of QuantumMCA software for further analysis and spectral storage on your PC.



Color coded end caps for immediate recognition of detector type

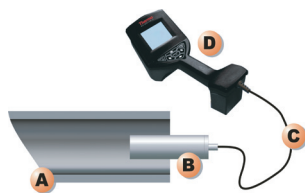
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Thermo Scientific Test Adapters made of natural Lutetium oxide can be used for precise field verification of the detector linearity and are ideally suited for many training purposes:

- ConOps execution upon occurrence of unknown isotopes (photo peaks indicated in red)
- Isotopic identification (using a secondary library containing Lu-176)
- Tutorial demonstration of sum-peak occurrence as function of detector spacing and source shielding

Color peak display - with real time update during the measurement - enables more clear information for reachback and further ConOps steps



One hand measurement application

One or two hand operation is possible for the best ergonomics for each monitoring situation:

- A) Cavity
- B) Detector
- C) Extended spare cable
- D) RIIDEye electronics



While taking a gamma spectrum the RIIDEye can be complemented with the gamma neutron pager RadEye GN for highest detection performance in respect to both fast and moderated neutrons.

Technical specification of the Thermo Scientific RIIDEye

Detector	Scintillator with integral PMT and HV supply
Signal Processor	Digital electronics with bases converter 14-bit pipelined flash
Energy Range	20 keV to 3 MeV
Display	320 x 240 high brightness 32000-color 3.5 inch LCD
I/O	Ethernet and removable memory card
Battery Life	8 hours nominal with standard battery pack
Weight	1.4 kg (3 lbs) with 2x2 NaI detector
Dimensions (without detector)	31 cm x 11cm x 13 cm (12 inch x 4 inch x 5 inch)
Temperature	-20 °C to 50 °C
Controls	7-key pad with single thumb operations
Alarms	Audio and visual on screen
Stabilization	Continuous with K40 requiring no source change or licensing
Library	Standard ANSI, medical, industrial, SNM or user defined
Neutron Detector	Optional dual scintillator with imbedded Lithium (NaI detectors only)
Functions	Isotope identification, spectral analysis, dose rate meter, source locator

RIIDEye versions

RIIDEYE-G (red end cap):	2"x2" NaI(Tl)	#4250850
RIIDEYE-GN (blue end cap):	2"x2" NaI(Tl) with Neutron Detection channel	#4250851
RIIDEYE-G-HiRes (red end cap):	1.5"x1.5" LaBr (Lanthanum Bromide)	#4250852

Each version comes with an accessory kit, comprising: 1 foam insulated hard carrying case, 1 extended spare cable for 2 hand operation, 1 backup battery holder, 1 memory card reader, 1 Quantum MCA software.



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