

Thermo Scientific RIIDEye

Handheld Radiation Isotope Identifier

New Thermo Scientific Radiation Isotope Identifier for fast real time identification

Key Features and Benefits:

- Superior performance for ID of low activities
- Patented QCC algorithm enables faster and more accurate ID's
- Color coded peaks provide more source data during and after completion of ID
- Continuous gain stabilization with natural potassium enables accurate results in changing environment
- Two hand operation for more remote detector use while display and controls are still at hand
- Weight balanced at mid point of handle
- No integral Cs-137 source:
 - less false ID's
 - higher Cs-137 detection sensitivity and shielded Am-241 sensitivity
- Variety of scintillation detectors available
- Integrated non He-3 neutron scintillation detector option
- High-resolution LaBr3 detector option
- Easy spectrum reach-back in ANSI N42.42 format
- Ethernet and removable memory card
- Commercial AA batteries



The Thermo Scientific RIIDEye series is an advanced and intuitive isotopic identifier. The patented QCC technology provides real time gamma source identification and improved quality of isotopic IDs. Continuous handheld operation is made comfortable by virtue of a design that is weight balanced at the mid-point of the handle.

With an intuitive interface and simple button design the RIIDEye can easily be used by personnel with little experience in radiation measurement. Operation of the RIIDEye is intuitive and its features are easy to learn. For example, obvious identifications are already displayed as color coded energy peaks in real time - while taking a spectrum – resulting in significant time savings, important for measurement scenarios.

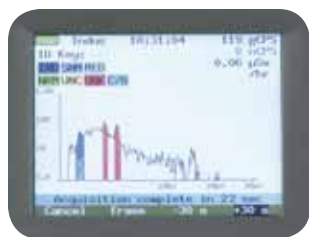
Color Coded Peaks: In order to quickly alert the user to the presence of either benign or threat radioactive material, the RIID-Eye offers identification “at a glance” with the use of color coded isotopic regions. This is a valuable tool for any application where quick, preliminary threat determinations are critical to the mission.

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.



Color coded end caps for immediate recognition of detector type

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Color peak display enables more clear information for reachback and further conops steps



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

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



2 hand measurement application

One or two hand operation is possible for the best ergonomics for each monitoring situation. The probe can be easily detached by the operation of a single clip:

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



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

Technical specification of the Thermo Scientific RIIDEye

Detector	Standard 2" x 2" NaI Scintillator, 1.5" x 1.5" LaBr and 3" x 3" and larger NaI are available
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 2" x 2" NaI detector
Dimensions (with 2" x 2" NaI)	32 cm x 25 cm x 15 cm (12.6 inch x 9.8 inch x 5.8 inch)
Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Controls	Well spaced 7-key pad for simple menu use with protective gloves
Alarms	Audio and visual on screen
Stabilization	Continuous with natural potassium requiring no periodic source replacement 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.



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