



Thermo Scientific RIIDEye X
Handheld Radiation Isotope Identifier

Extraordinary performance and reliability
**with an unequaled
cost of ownership**

Thermo
SCIENTIFIC

Low cost of ownership

Without the need for regular calibration, and built to last with no need for repair and service, the Thermo Scientific™ RIIDEye™X Handheld Radiation Isotope Identifier offers you the lowest cost of ownership.

Rugged

- ▶ Rubber Shock Absorbers
- ▶ IP 65 rating
- ▶ Temperature shock resistant
- ▶ Withstands drops up to 1 meter
- ▶ Easily decontaminated

Built for real-life

- ▶ One hand operation
- ▶ Light weight and balanced for comfortable long term use
- ▶ Raised buttons allow for gloved operation
 - ▶ Temperature shock resistant
- ▶ Withstands drops up to 1 meter from every angle
 - ▶ Easily decontaminated

Foolproof operation

- ▶ Oversized high-resolution display
- ▶ Easy-to-read color display, even in direct sunlight
- ▶ Intuitive interface for new and seasoned users

Predictable costs

- ▶ Automatic calibration
- ▶ Rugged design minimizes repairs

Precise identification

- ▶ He-3 performance without He-3
 - ▶ Tested to ANSI N42.34-2006 standard





Differentiate between benign isotopes and threat material

Our unique, patented QCC algorithm maximizes the scintillation detector capabilities. It resolves difficult to see low energy peaks by expanding the number of channels, while simultaneously compressing the high energy peaks which improves the signal-to-noise ratio.

U.S. Patent No. 5,608,222

Accurately detect Special Nuclear Material

SNM Assist on the RIIDEye X analyzes the acquired ID spectrum in real time and automatically displays the optimum scan time to accurately detect the presence of SNM (Pu, U, Np).

Easy interpretation

View the real-time spectra build of isotopes present in the environment as the identification scan is in process. Isotopes are color coded to visually alert the operator to the presence of isotopes and indicates the moment an accurate identification is made.



▲ The RIIDEye X operator can view the real-time spectra build of isotopes present in the environment as the identification scan is in process.

Isotopes are color coded to visually alert the operator to the presence of benign, threatening or unknown sources and indicates the moment an accurate identification is made.

When activated, SNM Assist automatically calculates and alternately displays the optimal ID scan time, for the current environment, with the actual time remaining.

With Real Time Spectra Building and SNM Assist, users can customize the scan duration in real time for fast, reliable and efficient results.

Ask about our complete RIIDEye X Kit

- ▶ Foam insulated hard carrying case
- ▶ USB memory card reader
- ▶ Adjustable foam shoulder strap
- ▶ AA alkaline battery adapter
- ▶ Print manual
- ▶ RIIDView SW for viewing spectra on PC



Specifications and ordering information

Specifications	Thermo Scientific RIIDEye X
Gamma Detector	Choice of 2" x 2" NaI Scintillator or 1.5" x 1.5" LaBr
Energy Range	20 keV to 3 MeV
Display	320 x 240 high brightness 32000-color 3.5 inch LCD
I/O	Removable memory card or via serial port
Battery Life	8 hrs with battery pack - spare battery adapter for 6- AA batteries provides additional hours
Weight	2.6 kg (5.7 lbs) with 2" x 2" NaI detector, 2.4 kg (5.3 lbs) with 1.5" x 1.5" LaBr
Dimensions (with 2" x 2" NaI)	27.9 x 12 x 21.9 cm (11 x 4.7 x 8.6 inches)
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	Automated and continuous with natural potassium requiring no periodic source replacement or licensing
Library	47 isotopes with 6 different trigger lists including Standard ANSI, ANSI+, security, medical, industrial and user defined
Neutron Detector (optional)	1.8 x 3.4 cm Ce doped with optional Cs2LiYCl6 (CLYC) crystal
Functions	Isotope identification, spectral analysis, dose rate meter, source locator

Options

1. Test adapter for RIIDEye Series, 425085071: 9 g of Lu₂O₃ ceramic and 10 g of 2 % thoriated tungsten welding rod WT-20, energy range 20 keV to 3 MeV.
2. Spare memory card PG-110796: Spare memory card containing factory calibration data and FW.
3. Cables: Reachback cable for transmissions via phone (COMA001548); PC Interface cable for transmissions to hose USB device like a PC (COMA001568)

Thermo Scientific RIIDEyeX Ordering Information		
Product	Part No.	Description
RIIDEye X-G	4250880	Medium resolution gamma radiation detector with NaI
RIIDEye X-GN	4250885	Medium resolution gamma and neutron radiation detector with NaI and CLYC neutron detector
RIIDEye X-H	4250882	High resolution gamma radiation detector with LaBr (Lanthium Bromide)
RIIDEye X-HN	4250886	High resolution gamma and neutron radiation detector with LaBr and CLYC

Solutions For Any Scenario

We offer the most complete line of handheld radiation detection systems on the market today. Check out our entire line of handheld radiation detection products.



Thermo Scientific™ RadEye™ SPRD™



Thermo Scientific™ RadHalo™



Learn more about our RIIDEye X at
www.thermoscientific.com/riideyex

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