



## The New Standard in Portable Alloy Analysis Instrumentation

### **XLi 800**

With the introduction of the XLi 800 Series, NITON has dramatically improved the performance of standard isotope-based XRF analyzers, while revolutionizing the ergonomic form-factor, and further reducing the weight and size. The bottom line is enhanced productivity and ease of use.

- Attractive, ergonomic form factor
- High-strength, injection molded, environmentally sealed housing
- Integrated touch-screen display with intuitive user interface
- Quick-swap batteries eliminate downtime
- Integrated barcode reader & scan engine for fast, easy data entry
- New Infiniton™ source configuration
  - *Eliminates source replacement and never slows down!*
  - *No multiple source measurements – one source does it all!*
- A full suite of traditional isotope options available

### **XLt 800**

The XLt 800 Series provides the user with the speed and efficiency of x-ray tube excitation, while greatly reducing the regulatory demands encountered with isotope-based systems. The XLt can easily be shipped from state to state and country to country with minimal paperwork and expense.

- Ergonomic pistol grip design
- High-strength, injection molded, environmentally sealed housing
- Integrated touch-screen display with intuitive user interface
- Quick-swap batteries eliminate downtime
- Integrated barcode reader & scan engine for fast, easy data entry
- High performance x-ray tube excitation
  - *Reduced regulatory requirements*
  - *Eliminates the need for multiple sources*
  - *Never slows down*

**CONVENIENCE • PRODUCTIVITY**  
**INCREDIBLE VALUE**

**NITON**  
The Leader in Portable Alloy Analysis

# NITON Transforms Portable Alloy Analysis Once Again...

Whether the need is quality control, sorting of scrap material or even failure analysis, verification of metal alloys is crucial to the success of many businesses.

In late 1998, NITON Corporation revolutionized the alloy analysis industry with the introduction of its XL-800 Series Alloy Analyzer - the first ever high-performance, handheld x-ray fluorescence (XRF) device for alloy verification. Since that time, NITON products have become the standard for material verification in applications ranging from scrap metal sorting to petrochemical PMI (positive material identification).

Now, NITON once again transforms the alloy analysis industry with the introduction of two new portable alloy analysis products: The XLi 800 isotope-based portable alloy analyzer and the XLt 800 x-ray tube-based alloy analyzer.

## Outstanding Analytical Performance

Both the XLi and XLt offer analytical performance and testing speed that is unsurpassed in the industry, providing precise analysis at greater than three times the speed of our older systems or any other competitive products.

Both instruments are equipped with a Hitachi SH4 CPU and an advanced ASICS high speed digital signal processor(DSP) providing unmatched speed and precision on even the most difficult alloy separations.

Separation of certain alloy grades based on low levels of Ti have typically required a secondary measurement with a <sup>55</sup>Fe source. The XLi Infiniton can now perform these separations using a slightly longer test time – without the need for a secondary <sup>55</sup>Fe measurement, and the XLt can complete these separations in just a few second single measurement!

Typical grade identification and chemistry verification is only 3-5 seconds with either system.

Signature ID and Pass/Fail analysis takes only 1-2 seconds. There is absolutely no faster way to identify or sort mixed alloy material.

## Specifications

Weight:	XLi: 1.7 lbs. (0.8 kg) XLt: 3.0 lbs. (1.4 kg)
Dimensions:	XLi: 11.5 x 3.5 x 3 inches (292 x 89 x 76 mm) XLt: 9.75 x 10.5 x 3.75 inches (248 x 273 x 95 mm)
Batteries:	(2) Rechargeable Quick Swap Li-ion battery packs. 6-12 hour use, 2 hour recharge.
X-Ray Sources:	XLi: One or more of the following sealed radioisotope sources: <sup>109</sup> Cd, <sup>55</sup> Fe, <sup>241</sup> Am XLt: Low power (1.0W) X-ray tube with Ag anode target.
X-Ray Detector:	High-performance Si-PiN detector; Peltier cooled. Energy Resolution: <250 eV at Mn K alpha line,
Analysis Range:	22 standard elements in the range Ti (22) to Bi (83)
Modes:	Factory intalled FP Analysis and Grade ID Standard Signature Store/Match Mode Super Signature ID Mode Pass/Fail Sorting Mode
System Hardware:	Hitachi SH4 CPU ASICS high-speed DSP 4096 channel MCA
Display:	Backlit ¼ VGA touch-screen LCD
Std Accessories:	Locking shielded carry case Shielded belt holster Spare Li-ion battery pack w/holster 110/120VAC battery charger PC connection cable NDT© (NITON Data Transfer) PC Software Safety Lanyard Check Standard Weld collimator
Opt. XLi Accys:	HotFoot™ heat shield with 12-inch extension handle -facilitates testing of hot samples to 800° F (427° C)  Telescoping extension handle
XLi & XLt Accys:	Benchtop test stand - allows either instrument to function as a benchtop analyzer while connected to an external PC.

NITON reserves the right to change the above specifications without prior notice

## NITON – The New Standard in Portable Alloy Analysis

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