

The NITON XLt 797 is the ideal tool for first-pass RoHS compliance screening in manufacturing, border control and for the recycling of scrap for WEEE compliance. The XLt's fast, nondestructive analysis provides the information necessary for fast pass or fail decisions.

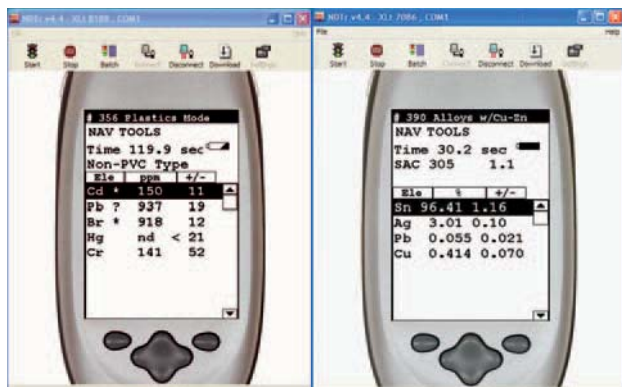
NITON XLt 797

The Ideal Screening Tool for RoHS and WEEE Compliance



Thermo's NITON XLt 797 provides many distinct advantages:

- Very easy to use - even by nontechnical personnel
- Little to no sample preparation is necessary
- Nondestructive test with instantaneous results
- Powerful NDT® data management software suite



Thermo's NITON NDT® software utilities feature a suite of powerful data management functions, and remote instrument operation via wireless connection to a PC or PDA.

EU 2002/95/EC - The RoHS Directive

Early in 2003 the European parliament drafted legislation restricting the quantities of certain hazardous elements in electrical and electronic materials. This legislation, dubbed the Restriction of Hazardous Substances directive (RoHS) will become effective on July 1st 2006. At that time, products entering EU countries will require strict documentation of compliance, with each Member State responsible for enforcement.

Restricted substances and their maximum permissible levels will be as follows:

Cadmium (Cd)	100 ppm
Mercury (Hg)	1000 ppm
Lead (Pb)	1000 ppm
Hexavalent chromium (Cr(VI))	1000 ppm
Polybrominated Biphenyls	1000 ppm
Polybrominated Diphenyls	1000 ppm

In order to ensure product compliance; suppliers, fabricators, assemblers, and even recyclers must perform verification testing on components. This creates a need for new RoHS QA/QC protocols and analysis programs - where speed, accuracy, and cost-effectiveness are critical. Thermo's NITON XLt 797 is the perfect tool for the job.

NITON XLt 797 for RoHS Compliance

The handheld NITON XLt 797 analyzer provides a fast, reliable and nondestructive means of screening plastics and electronic components for RoHS-prohibited substances. Its ease of operation permits rapid screening of incoming shipments as well as existing inventory, providing significant savings in both time and laboratory costs.

With the simple pull of a trigger, the NITON XLt 797 provides rapid quantitative analysis of cadmium, lead, mercury, total chromium and total bromine - as well as additional elemental constituents - in as little as 30 seconds. Printed circuit boards (PCB's), board components, plastic housings, cables, plated fasteners and much more can all be tested with one light-weight instrument.

RoHS screening using Thermo's NITON XLt 797 eliminates production delays associated with waiting on lab results, while the fast, nondestructive nature of the test allows for a much larger sampling of material to be tested in a shorter period of time, greatly reducing the chances that RoHS-restricted materials will enter the manufacturing process.



EU Directive 2002/96/EC – WEEE Directive

The Waste Electrical and Electronic Equipment Directive (WEEE) which became effective 13 August 2005, aims to minimize the impact of electrical and electronic equipment on the environment both during normal lifespan and after becoming waste. The directive applies to a large spectrum of products, setting criteria for the collection, treatment, recycling and recovery of waste electrical and electronic equipment. Requirements of the directive include, but are not limited to, the removal of all plastic containing brominated fire retardants and components containing mercury (such as switches and backlights).

Electronics Recycling with the NITON XLt 797

The XLt 797 is ideal for use in the recycling of waste electronics, providing fast nondestructive verification of the presence of bromine and cadmium in plastics, mercury in switches, and lead in solders and electronic components. The XLt also quickly differentiates between PVC and non-PVC plastics in the recycling stream.

Thermo Electron Corporation's is the world's leading manufacturer of portable x-ray fluorescence (XRF) instrumentation, with more than 6000 NITON instruments in use every day worldwide.

The NITON XLt 797 is just one of Thermo Electron's Portable NITON Analyzer Solutions which include analysis tools for metal alloy identification, lead-based paint testing, RCRA metals in soil, mining applications and a host of other analysis needs.

NITON XLt 797 Specifications

Weight	1.4 kg (3.0 lbs.)
Dimensions	248 x 273 x 95 mm (9.5 x 10.5 x 3.75 in.)
Excitation Source	Miniature x-ray tube — 40kV/50µA maximum
Detector	High performance Si-PiN
System Electronics	Hitachi SH-4 CPU ASICS high-speed DSP 4096 channel MCA
Batteries	2 Rechargeable Li-ion batteries 8-12 hrs each, 2hr. recharge
Display	¼ Backlit VGA touch screen LCD
Testing Modes	Plastics - RoHS Threshold mode (cables & packaging) Electronics (solders & components)
Analysis Range	Plastics: Ti, V, Cr, Fe, Ni, Cu, Zn, As, Se, Br, Cd, Sn, Au, Hg, Pb, Bi Electronics: Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Zr, Nb, Mo, Pd, Ag, Cd, In, Sn, Sb, Hf, Ta, Pt, Au, Pb, Bi
Data Storage	Internal - 3000 readings + spectra
Standard Accessories	Testing stand (for benchtop use) 100 sample cups Shielded belt holster Shielded waterproof carrying case 110/120 VAC charger/adaptor RS-232 PC data transfer cable Integrated barcode reader NDT PC software utilities
Data Entry	Three methods for user data entry: Virtual touch screen keyboard; User programmable pull down lists; Integrated barcode reader
Data Transfer	RS-232 serial cable or optional Bluetooth™ wireless connection NITON NDT PC software utility easily exports data for use in common PC applications, and provides data encryption QA/QC documentation
Security	Password protected user security
Licensing/Registration	Varies by region. Contact Thermo's NITON Analyzers business unit or your local NITON product distributor