

# Thermo Scientific Niton XL3 Series Accessories



## *Simply Superior Handheld XRF*



Metal Alloy Analysis



Consumer Products



Mining & Environmental Assay



Academia

## Thermo Scientific Niton XL3 Series – The Total Package

Our distinguished history of building the most versatile XRF instruments continues with our handheld Thermo Scientific Niton XL3 Series analyzers. They offer the most powerful sample excitation sources ever available in portable XRF instruments with features that provide the best analytical performance for elements ranging from magnesium (Mg) to uranium (U).

From the integrated tilting color touch-screen display to the customizable menus for ease of use, the ergonomic new Niton® XL3 Series analyzers are the lightest weight and most ruggedly constructed handheld XRF analyzers available today.

But we don't stop there. Combining this best-of-breed instrument with our best-of-breed optional accessories provides you with the total package you need for maximum productivity.

### Accessories – Promoting Safety, Precision, and Ease of Use

In addition to its wide range of excitation sources, detector options, and instrument calibrations that suit applications ranging from the routine to the custom, Niton XL3 Series analyzers support a comprehensive range of accessories, allowing you to analyze virtually any type of sample.

#### Test Stands

**Benchtop Test Stand** – This fully shielded benchtop test stand allows hands-free measurement of samples, protecting you from primary or scattered radiation. Our standard Niton Data Transfer (NDT©) software enables “remote” control, data display, and download via USB or serial connection cable, or optional Bluetooth™ connection.



*The benchtop test stand's leaded glass shielding provides full view of the test chamber while guarding against radiation exposure.*

**Portable Test Stand** – This lightweight (6 lb.) ultra-portable option is ideal for field use, especially in remote locations or when you want to analyze small samples without connecting your computer to the Niton XL3. Interior dimensions are 5.5 inches by 2.63 inches by 2 inches (13.97 cm x 6.67 cm x 5.08 cm).

#### Using the Portable SmartStand

##### *To Connect:*

- Use the included USB cable to attach the test stand to your Niton XL3 instrument.
- Plug the USB cable into your computer's open USB port and the other end into the test stand's USB port.
- Draw what power is needed for the test stand from your computer or use your Niton XL3 power adapter, plugging the adapter into the power port on the test stand and the other end into a wall outlet.

##### *Safe Operation:*

- Insert the front of the analyzer into the cone under the floor of the measurement chamber, pushing firmly until the analyzer seats in place with an audible click.
- To remove the analyzer, squeeze the tabs helping to hold the instrument in place until it separates from the cone.
- The hinged hood is shielded to prevent exposure to either primary or scattered x-rays. It slide locks shut for transporting.
- When the hood is lifted, your analyzer will display a red icon at the top of the touch screen.
- When the hood is shut, your analyzer will display a green icon at the top of the touch screen. The analyzer will not take a reading unless the hood is shut and the green icon is on.



With the SmartStand, sample preparation kit, and NDT software, users can virtually bring the lab to their desktops.



The XL3 Series Portable SmartStand collapses for easy transport.

**Thermo Scientific SmartStand** – An optional shielded test stand provides you a safe platform for analysis of small and irregularly shaped samples. Collapsible for easy, convenient transport, its unique design allows easy setup/takedown in seconds. Utilizing smart RFID technology, it determines automatically when the Niton XL3 instrument is docked and adjusts the instrument parameters for test stand use. This test stand features integrated warning lights to alert you to instrument operation and sample inserts that precisely position samples for repeatable testing. Interior dimensions are 8 inches by 8 inches by 2 inches (20.32 cm x 20.32 cm x 5.08 cm), and include an electrical interface with the instrument's remote trigger.

## Sample Preparation Kits

These kits assist you in preparing bulk (e.g., soil) samples and thin samples for analysis.

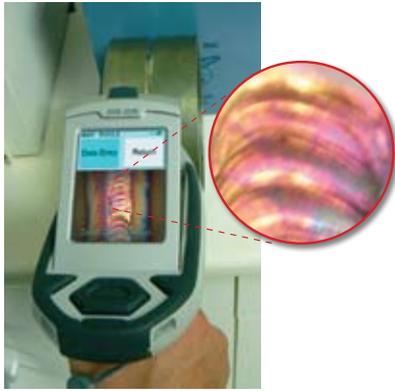


Sample collection, preparation, and analysis accessories

**Niton XL3 Bulk Sample Kit:** Includes four stainless steel sieves, 100 sample cup assemblies, mortar & pestle set, cleaning brushes, sample collection tools, and in-situ test guard.

**Niton XL3 Thin Sample Kit:** Includes dust wipe and air filter check samples, 100 filter holders, dust wipe holder, and 100 ASTM-approved dust wipes with bags.

Additional Accessories



**Small Spot and CCD Camera Features** – The optional, revolutionary small-spot focus feature, combined with the integrated color CCD camera and sample imaging system, is ideal for positioning, analyzing, and recording analytical results. Store the image of the tested area along with the analysis data.

*The Thermo Scientific WeldSpot small-spot focus feature can isolate weld beads; use with CamShot CCD camera and sample imaging system.*

**Belt Holster** – The rugged, molded instrument holster included as a standard accessory with every Thermo Scientific Niton XL3 Series analyzer provides dependable storage and transport of your instrument in the factory or on the jobsite. It keeps your analyzer safely by your side while climbing ladders or scaffolding – leaving your hands free for maneuvering.

**Weld Mask** – An optional clip-on weld analysis mask narrows the test window to 3 mm, permitting isolation of weld beads from joined pieces for analysis and verification of material composition and proper dilution rate. It is ideal for analyzing all types of weldments, including fillet welds. (For alloy analysis applications only.)



*The clip-on weld mask narrows the test window to 3 mm, isolating weld beads from joined pieces.*



**Thermo Scientific Extend-A-Pole** – Providing dual, remote trigger activation for ease of use in multiple orientations, the telescoping extension pole features an instrument cradle that clamps to the analyzer, an adapter to hold a GPS or PDA, as well as a fixed tripod adapter.

*The Extend-a-Pole™ is ideal for in-field soil testing and mining and mineral exploration. Convenient belt holster is also shown.*

**Heat Shield – Thermo Scientific HotFoot Hot Surface Adapter** – Form-fitting heat shield protects your hand and the instrument from elevated temperatures associated with in-service Positive Material Identification (PMI) testing. It extends testing capabilities to 1000° F (500° C).



*HotFoot™ Hot Surface Adapter protects both your hand and the instrument.*



**Backscatter Shield** – This patented device prevents scattered radiation from light-matrix samples returning to your hand, especially those samples associated with consumer goods, RoHS, WEEE, and ELV analysis.

**Portable Helium Tank** – At 1.5 pounds, this refillable tank is designed for use with the Thermo Scientific Niton XL3t 900 Series analyzer to fill the interior of its unique measurement head with pure helium, purging atmospheric air from the x-ray analysis path and allowing light element x-rays to contact its high-resolution x-ray detector. The tank includes a preset flow rate valve and quick disconnect. Refill the helium tank to avoid consumable helium tank expenses. Along with the portable helium tank, you also get the ergonomically designed, cross body portable helium tank holster. It comfortably secures the 58 liter portable helium tank for in-field testing.



*The lightweight, refillable helium tank with its ergonomically designed holster facilitates light element testing in the field. Large tank (shown) not included.*



**Stationary Tank, Two-Stage Regulator** – This custom two-stage regulator for large, fixed-site helium tanks governs and optimizes gas flow at a fixed rate for Niton XL3t 900 Series Helium Purge analyzers.

**Wireless Portable Printer** – This wireless battery-powered thermal printer connects via Bluetooth to the analyzer, providing you with a strip-chart printout of results after each reading.



**Barcode Scanner** – This barcode scanner, complete with rechargeable battery pack and charger, connects via Bluetooth to the Niton XL3t analyzer. It projects a laser for rapid entry of barcode information into data fields associated with each measurement.

**Docking Interface** – The docking port assembly allows you to connect the Niton XL3t and XL3p analyzer to test stands as well as process assemblies of your own design.

**Soil Testing Guard** – Invaluable in keeping the front of your analyzer clean, the soil testing guard provides a firm location for the instrument's proximity button, while providing you a denser sample for better results.



**GPS** – Bluetooth-equipped Niton XL3 Series XRF analyzers are capable of communicating with GPS modules and saving GPS coordinates with every reading, storing latitude, longitude, and altitude readings.

**Tripod Stand** – Combine the versatile Extend-a-Pole with our durable tripod for convenient hands-free analysis. It is ideal to use for art analysis and other applications where the analyzer should not come in direct contact with the sample undergoing testing and/or when analyzing large samples for long periods of time when one of our test stand options doesn't accommodate your sample.



## Rest Assured with Niton XL3 Series Accessories

It's clear that whichever accessories you choose, you can rest assured that they are of the highest quality...the total package from the worldwide leader in handheld XRF analysis.

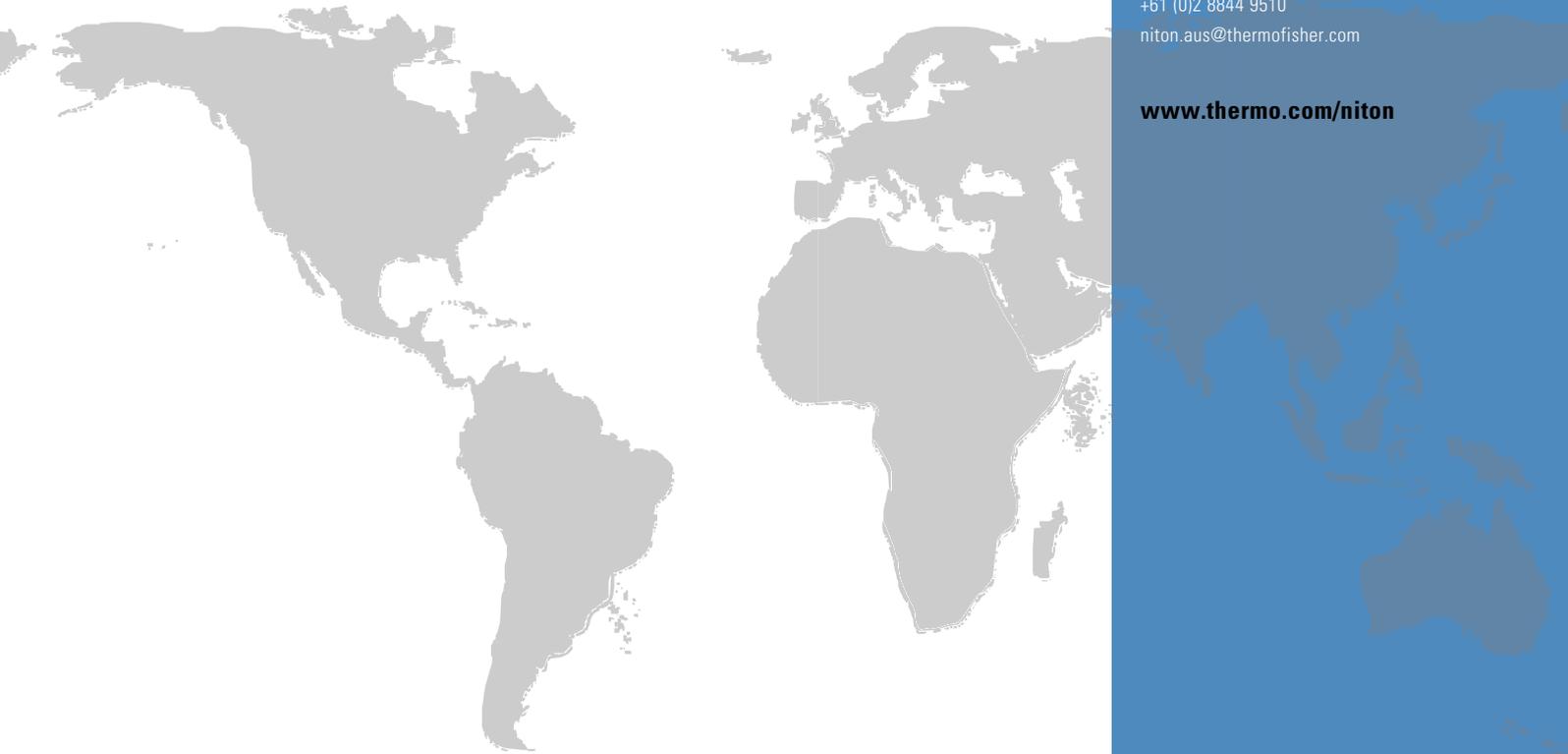
Accessory	Alloy	Consumer Products RoHS/WEEE/ELV	Environmental	Mining	Academia
Benchtop Test Stand	✓	✓	✓	✓	✓
Portable SmartStand	✓	✓	✓	✓	✓
Docking Interface	✓	✓			✓
XL3 Bulk Sample Kit			✓	✓	✓
XL3 Thin Sample Kit			✓		
Belt Holster	✓	✓	✓	✓	✓
Weld Mask	✓				
Small-spot Focus/ CCD Camera	✓	✓		✓	✓
Extend-a-Pole	✓		✓	✓	✓
Heat Shield	✓				
Soil Testing Guard			✓	✓	✓
Backscatter Shield	✓	✓	✓		✓
Portable Helium Tank & Holster	✓		✓	✓	✓
Stationary Helium Tank – Two-Stage Regulator	✓		✓	✓	✓
Wireless Portable Printer	✓	✓	✓	✓	✓
GPS	✓		✓	✓	✓
Barcode Scanner	✓	✓	✓	✓	✓
Tripod Stand	✓	✓		✓	✓

*For a list of standard accessories included with instruments for any of the above applications, please contact Thermo Fisher Scientific or your local representative.*

## Simply Superior XRF Analysis Solutions Backed by Worldwide Sales, Service, and Support

*Thermo Fisher Scientific is internationally recognized as the leader in handheld x-ray fluorescence (XRF) analysis technology. Our success is founded on our commitment to our customers. Our world-class scientists work closely with our sales, marketing, and service personnel to design and build instruments that meet and exceed customer requirements. Thermo Fisher's family of Niton XRF analyzers is the product of the company's long term commitment to the development and production of superior instrumentation and customer service that is second to none.*

*Thermo Fisher Scientific is the world leader in serving science. Our instrument solutions enable our customers to make the world a healthier, cleaner, and safer place. You may know us by many different names, but today, we go by Thermo Fisher Scientific for laboratory, analytical, measurement and control instruments, and software. One company, one name, one focus: Your success.*



*With a presence in more than 75 countries on six continents, a quick response to your questions is assured. Local training, service and support are all available worldwide; ask your local Thermo Scientific Niton Analyzers representative for details.*

*Our distributor presence is combined with 30 service centers around the world, establishing an organization uniquely dedicated to customer satisfaction.*

*In addition to these offices, Thermo Fisher Scientific maintains a network of representative organizations throughout the world.*

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