

# Thermo Scientific Niton DXL Analyzer

Portable XRF for precious metals analysis

The Thermo Scientific™ Niton™ Desktop X-ray Lab delivers fast and accurate analysis of all precious metals and major alloying elements. Compact and portable, the Niton DXL is an innovative instrument that gives pawn shops, jewelers and refineries a competitive edge while building trusting relationships with customers.

- Simple to operate, safe to use and perfect for retail environments
- Analyzes composition of all precious metals quickly and simultaneously
- Increases profitability with precise results and detection of counterfeit items



## Simplicity

Just close the lid and push the button! See your test results in seconds on a bright, touchscreen color display. No need to use any harsh chemicals or acids that can burn fingers, ruin clothing, and damage countertops or carpets – not to mention create employer liability issues.

## Elegance

AC or battery-powered, the Niton DXL precious metal analyzer is fully calibrated and ready to use. The closed-beam design prevents x-ray exposure to customers and operators, and the analyzer's windows reveal an LED-illuminated sample chamber, which ensures that items undergoing analysis never leave the customer's sight.

## Accuracy and Precision

Unlike acid or electronic tests, the Niton XRF analyzer gives an exact, quantitative result for ALL precious metal compositions – not an approximation or a result outside the limited testing range of the method. What's more, the Niton DXL provides karat-purity results

very comparable to the gold-standard testing method, fire assay, which must be performed in a laboratory by trained experts.

## Traceability

The optional Small Spot feature allows isolation of small samples or components, and the built-in camera enables traceability by tagging an image to the test result.

## Gold Plate Detection

Don't be fooled by resistant materials or stainless steel. Our patented gold (Au) plate detection and identification technology, or AuDIT™, instantly identifies gold plating of light to medium thickness. Available only on Niton XRF analyzers, AuDIT flags vermeil, gold-plated copper, steel, tungsten, and any other non-gold substrate, helping to keep you profitable.



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The Niton Desktop X-ray Lab delivers fast and accurate analysis of all precious metals.

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NAV Tools																													
Gold Plate Not Detected																													
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The Niton DXL's patented AuDIT feature instantly warns you of the probability of gold-plated material.

### Thermo Scientific Niton DXL Precious Metal Analyzer Specifications

Weight	17 lbs (7.7kg)
Outside Dimensions	15.6 d x 8.1 w x 10.4 h in. (396 x 206 x 265 mm)
Test Chamber Dimensions	6.9 d x 7.2 w x 5.2 h in. (172 x 184 x 133 mm)
Tube	Ag anode 45 kV maximum, 80 $\mu$ A maximum
Detector	High-performance Si-PIN semiconductor
System Electronics	400 MHz ARM 11 CPU 300 MHz dedicated DSP 80 MHz ASICS DSP for signal processing 4096 channel MCA 64 MB internal system memory/ 128 MB internal user storage
Display	Color touch-screen display
Standard Analytical Range	22 elements including all precious metals
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB
Security	Password-protected user security
Data Entry	Touch-screen keyboard User-programmable pick lists
Standard Features and Accessories	One 7.2V 4-cell lithium-ion battery pack (charges in the instrument while on external power) 110/220V AC adapter USB PC connection cable Niton Data Transfer (NDT™) PC software 8 mm measurement area Internal CCD camera for precise sample positioning Adhesive Tack for stabilization of samples Spare puncture-resistant x-ray windows
Optional Features and Accessories	3 mm small-spot focus feature Additional battery pack External battery charger Locking shielded carrying case
Licensing/Registration	Varies by region. Contact your local distributor.
Compliance	CE, RoHS



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