

XRF Ltd Quality Assurance Services

The flexibility of the **Niton** analyser has allowed XRF Limited to expand their service to clients in pharmaceutical manufacturing, precision engineering, coin collecting and art history.

XRF Limited provides specialised material identification services using **Niton** portable XRF instruments. After 30 years of experience in quality assurance for industry they provide the solution to a key problem. The problem is the lack of reliable, definitive certification on incoming materials. The solution is retrospective non-destructive testing. XRF Limited use **Niton** instruments to identify alloys such as 316 or 304 stainless steel, other more specialist alloys and precious metals. Their clients range from engineering to numismatics, Chinese bronzes and other artworks & antiquities.

Having worked in the pharmaceutical industry for over 30 years, Gary Holland, Managing Director at XRF Limited, frequently worked on material certification of high grade products. Pharmaceuticals manufacturing is held to high standards of validation and is tightly regulated by the MHRA (Medical and Healthcare Products Regulatory Authority) and the FDA (Food and Drug Administration). Manufacturers need to know what metal is being used in each process, original materials certification is often absent or lost.

The **Niton** XRF instrument is an extremely accurate and efficient way to identify the metal components of any metal object within seconds. It is non-invasive and not destructive.

Gary tells us *"Offering a XRF testing and rental service has enabled me to provide a fuller service to clients throughout the UK and speeds up their validation needs."*

Gary has also told us that he finds the **Niton** instrument is easier to use than other instruments.



Quality Assurance Services



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He also likes its greater flexibility and security in terms of where he can use it, the wide range of materials it can test and how well it safeguards the readings. Gary appreciated the lack of pressure selling and very good personalised after sales training and ongoing support.

XRF Limited plans to continue using **Nitons**, and has already widened the range of material testing services they offer to include ancient artefacts and works of art.

Find more information on XRF Ltd and the services it offers at www.xrflimited.com

The Niton XL2 100G Analyser

Fast, accurate, handheld alloy verification in situ for QC, failure analysis, safety inspection

Technical specification

Weight 1.53 kg

Dimensions 256 x 275 x 100 mm

Tube Ag anode 38kV max, 80 uA max

Detector High-performance 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 Fixed angle, colour, touch-screen display

Standard Analytical Range 25 elements from Ti to Bi

Data Storage Internal >10,000 readings with spectra

Data Transfer USB, Bluetooth™ and RS-232 serial communication

Global Positioning GPS data included with sample information

Security Password -protected user security

Modes Metal Alloy

Data Entry Touch-screen keyboard User-programmable pick lists

Standard Accessories Locking shielded carrying case Shielded belt holster One 6-cell Li-ion battery pack 110/220 VAC battery charger/ AC adaptor PC connection cables (USB and RS-232) Niton Data Transfer (NDT) PC software Safety lanyard Check reference material samples

Optional Accessories Portable & benchtop test stands Backscatter shield Hot work standoff Wireless remote barcode reader



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