

The Bullion Room

**Niton XRF Analysers
prove priceless for precious
metal recyclers**



The Bullion Room was founded in 2004. Since opening its doors in Birmingham's famous Jewellery Quarter it has experienced an incredible rate of growth, with additional sites opening in Manchester and Dublin, and the Birmingham HQ moving to much larger premises in March 2010. The company's rate of expansion has been so exceptional that it has gone from a standing start to become one of the largest privately owned bullion dealers in Europe in just 6 years, handling 100's of millions in precious metals.

The Bullion Room specialises in buying and refining scrap precious metal from trade sources. The company's buying centre in Birmingham is capable of handling postal deliveries from relatively small clients, right up to large consignments from national chains of pawnbrokers. At their new, extended site they also have the capacity to carry out smelting of up to 1 tonne in a single melt.



Bullion Room CASE STUDY

The Bullion Room has the distinction of being the first UK operator in the precious metals sector to recognise the advantages that handheld Niton XRF technology can bring to their business. Their first instrument, a Niton XL3t, was acquired in August 2008. Thermo Scientific Niton instruments are now used throughout the organisation for a variety of applications including grading and analysis of incoming postal deliveries at the Birmingham headquarters; the provision of instant valuations at the company's customer-facing buying counter;



and for checking metal purity during smelting. A key advantage of the Niton XRF analysers is that they provide a completely non-destructive alternative to the acids and mass spectrometry techniques that were previously employed at The Bullion Room. They are also much faster and easier to use in comparison to traditional methods of assaying.

In addition to being the first UK user of Niton instruments in the precious metal sector, The Bullion Room is also unique in being the only user to date that has successfully resold Niton XRF analysers to their own customers, thanks in no small part to the constant visibility of Niton instruments on The Bullion Room's own premises.

Eamon Gaughan, Managing Director of The Bullion Room commented:

“We use Niton's X-ray guns at every point in our internal processes, from checking bought gold at our Trade Counter to estimating the purity of bars after melting and prior to assay. As the amount of metal we buy over our counter has increased by huge volumes in a very short space of time, speed and accuracy of analysis have become essential and Niton's X-ray guns have helped us greatly.

The support and maintenance Niton UK have provided The Bullion Room since we purchased our analysers has been excellent.”

For further information on The Bullion Room please visit their website at www.thebullionroom.com.

For further information on the Thermo Scientific range of Niton XRF analysers please call Niton UK on 01256 397860 or visit their website at www.nitonuk.co.uk.

The Niton XL2 GOLDD Analyser

The Niton XL2 GOLDD Analyser provides a number of distinct benefits:

- Light Element Analysis in a portable instrument
- Very easy to use - even by non-technical personnel
- Rugged design for real-world industrial environments
- Truly non-destructive testing with near instantaneous results
- From turn-on to trigger-pull to results in seconds
- Competitive pricing to suit even smaller organizations

These features make it the perfect choice to:

- Analyze metal alloys for scrap recycling or final product QC
- Carry out grade control, plant operations, and near-mine exploration
- Screen electronics and consumer goods for lead Tech Spec

Technical Specifications

Weight: 3 lbs 5.8 oz (1.53 kg)

Dimensions: 10.25 x 11 x 4 in. (256 x 275 x 100 mm)

Tube: Ag anode 45 kV maximum, 100 uA maximum

Detector: Geometrically Optimized Large Area Drift Detector (GOLDD)

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, color, touch-screen display

Standard Analytical Range: Up to 30 elements from Mg to U

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

Alloy Modes: Metal Alloy, Electronics Alloy, Precious Metals

Bulk Modes: Mining, Soil

Plastic Modes: RoHS Plastics, Toy & Consumer Goods Plastics,

TestAll™, Painted Products

Data Entry: Touch-screen keyboard, User-programmable pick lists,

Optional wireless remote barcode reader



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