

EDX

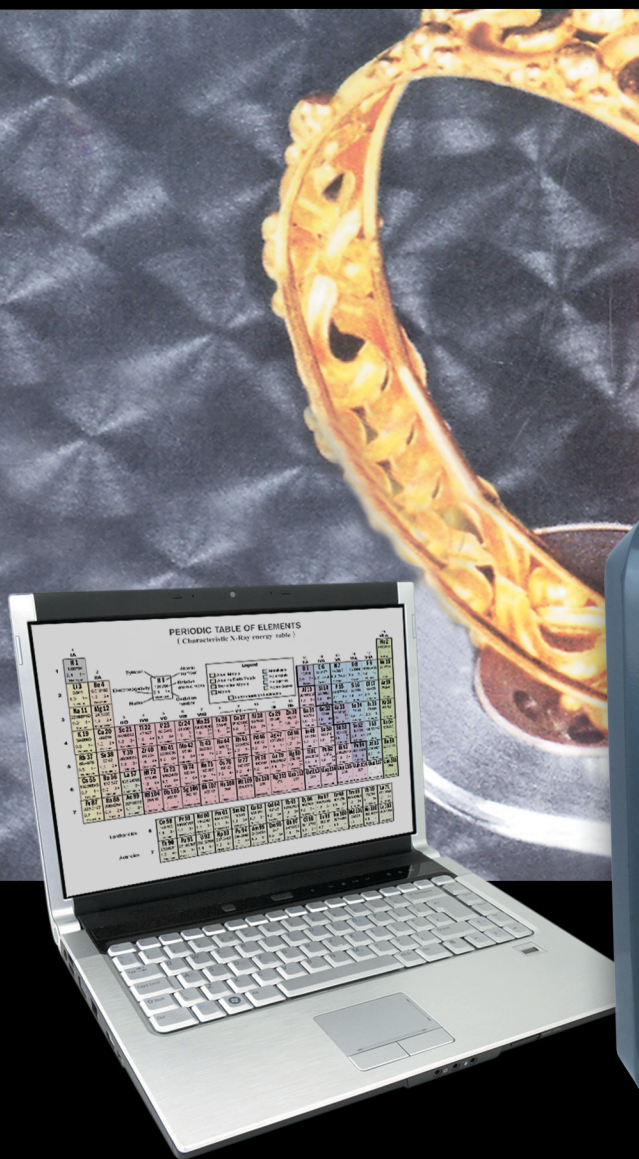
Redlands

FIND TRUE



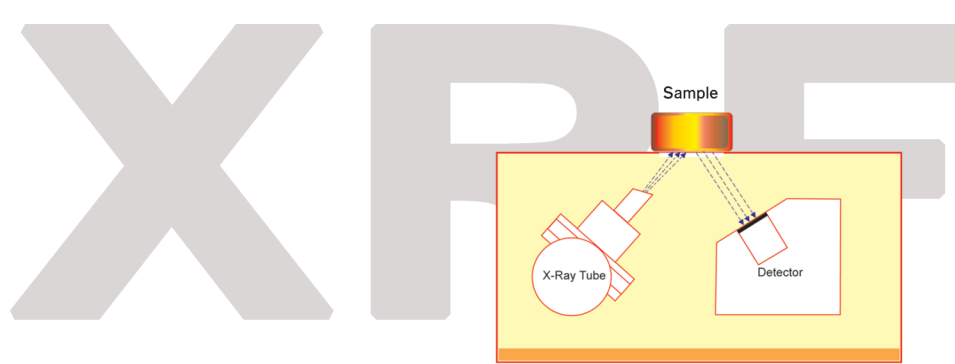
EDX 1000

20 mm scanning area



GOLD PURITY ANALYSER

- Applications**
- Retail Jewellery
 - Buying old gold
 - Quality control
 - Gold refinery
 - Gold loan



Applications & features

Redlands offer you EDX 1000 versatile energy dispersive X-ray fluorescence spectrometers for a variety of applications. High precision, repeatability, non destructive analysis and large area measurement are the highlights of these instruments. It is economically priced, its precision and ease of operation make it the most favoured purity analysis instrument in the jewellery trade. The instrument is interfaced to a computer through USB port and uses an extremely user friendly Windows based software for fast and easy analysis. It has the largest measurement area (20 mm) and is therefore most suitable for measuring precious jewellery. These features make Redlands the ideal spectrum analyser, for analysis of gold and precious metal alloys.

How do XRFs work?

Have you wondered why fluorescent colors seem very bright? These colors absorb light for a moment and then utilise this stored light to emit a much brighter color. The process is called fluorescence. Similarly when a (primary) X-ray beam strikes an element, it absorbs the radiation and reflects another (secondary) X-ray. Each element reflects a different X-ray which identifies the element. The XRF's detector registers the radiation emitted by the secondary X-ray and transmits it to the proprietary software which calculates and displays the qualitative and quantitative values. The intensity of radiation indicates the concentration of each element.

Measurement area

The Redlands Gold Purity Analyser has a spacious sample chamber which allows for measurement of large samples. The maximum diameter of the measurement area can be enlarged to 20mm, a feature exclusive to the Redlands Gold Purity Analyser. This feature eliminates the need to obtain multiple measurements to calculate averages for achieving accurate results.

X-ray Source	X-ray Tube
	Ti or W cathode
HV Generator	50kv adjustable in 200V steps
	Current adjustable in 1µA steps
Detector	Gas filled proportional counter
Detection Range	Au, Ag, Pt, Pd, Rh, Ru, Cu, Cd, Zn, Ni
Measurement Range	1 - - - 99.99 %
Measurement Time	30 - - - 300 seconds
Measurement Precision	± 0.1% - In homogeneously melted sample (Accuracy levels in comparison with fire assay result only)
Measurement Area	20 mm
Working Temperature	15 - - 25°C
Relative Humidity	10 - - 80%
System Requirement	External PC with Windows XP or Windows 7(32bit)
Software	Windows Based
Power Requirement	220V , 50Hz
Power Consumption	70W
Dimension	370mm X 375mm X 430mm
Sample Chamber	240mm X 275mm X 90mm
Weight	30 Kg



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