

# GOLD

## X-Strata980

Rapid, non-destructive assay and trace elements analysis  
in gold and precious metals



### Optimised for fast, accurate analysis of precious metals

- **Accurate**  
0.1-0.15 Wt% Au typical using 120 seconds analysis time
- **Fast, simultaneous analysis**  
25mm<sup>2</sup> semiconductor detector enables user to analyse many elements using one single condition
- **Trace elements analysis**  
100 Watt X-ray tube provides high sensitivity and low limits of detection for tramp elements such as Ir, Ru, Pb, Cd...
- **Analysis of small to large samples**  
Giant chamber accommodates jewellery items, dore bars, etc. of all shapes and sizes



Rapid  
precious metals  
analysis



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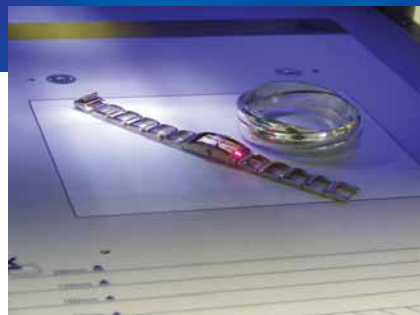
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## X-Strata980

### Gold and jewellery analysis

#### Key features

- Non-destructive, field-proven energy dispersive X-ray fluorescence (EDXRF) technology
- Rapid composition and coating thickness analysis
- Measurement methods according to ISO 3497, ASTM B568 and DIN 50987
- Intuitive Windows™-based SmartLink Fundamental Parameters (FP) software maximises user productivity, with standard-free and standards-based analysis
- Large, clear display of measurement area on sample
- Large chamber, for easy sample introduction, and the analysis of samples small and large
- Precision for gold (Au)  $\leq 0.1$  wt% at 95% confidence level
- Results displayed as karat or wt%
- Powerful and flexible report generator, with optional results export to Excel



#### Typical configuration for jewellery analysis

- Fixed table
- 0.3mm and 1.27mm diameter collimators for analysis of individual small features such as necklace links and clasps, and optimal precision and speed of analysis
- Combination of Oxford Instruments' microfocus 100W X-ray tube, and high performance semiconductor detector, delivering outstanding precision and low limits of detection
- 30X magnification video camera lens with 200%, 300%, and 400% digital zoom, providing large, clear sample image
- Precise crosshair for accurate sample positioning
- Simple "point and click" laser focus to automatically adjust focal distance, improving system reproducibility and minimising user-to-user variability

#### Other available configurations

- XY programmable analysis table, for multiple, unattended analyses
- Additional collimators available: 0.1 and 0.2mm diameter
- Smart Data Export, for the export of results into customized formats (reports, spreadsheets,...) at the press of a button

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