

Conservator's Mobile Lab

Non-destructive, Non-contact Elemental & Compound Analyzers

Equip your Conservator's Mobile Lab with the latest Bruker instrumentation for non-destructive, non-contact characterization of complex materials. It will help you gather as much information as possible concerning the nature of constituent materials and subsequently applied ones. Take your expertise and Mobile Lab on the road to help smaller museums and private collectors research, conserve and restore their collections.

Measure Elements and Compounds

- ✓ Qualitative
- ✓ Comparative
- ✓ Semi-quantitative
- ✓ Quantitative
- ✓ Elemental mapping

Analyze Multiple Project Materials

- ✓ Architecture & furniture
- ✓ Adornments & sculpture
- ✓ Textiles, objects & tools
- ✓ Illustrations & manuscripts
- ✓ Base materials
- ✓ Imagery & texture
- ✓ Pigments & coatings
- ✓ Binders, varnishes, preservatives

Meet Multiple Project Objectives

- ✓ Research & interpretation
- ✓ Determine original materials
- ✓ Authenticate value
- ✓ Guide conservation & restoration



ED-XRF

- Measures elements from Na to U at PPM to high percentage levels
- Calibrations, such as Cu-based ancient alloys, are available
- Capable of elemental mapping with optional scanner



RAMAN

- Determines molecular content of inorganic and organic compounds
- Spectral database including most common pigments, fillers, binders and waxes available to ID unknown materials
- Class 1M Laser safe



FT-IR

- Identifies molecular structures and components to help determine optimum cleaning method and solvents
- Spectral database of varnishes, fibers, and solvents available to help guide restoration treatments

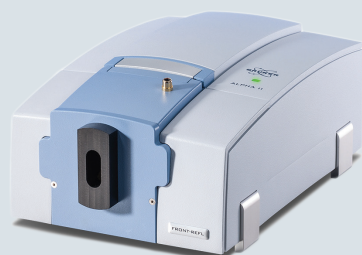
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TRACER 5i Handheld XRF

- 4W Rh X-ray tube; SDD; 5-filter wheel and manual filters; 3 and 8 mm sample spot sizes; SharpBeam™ geometry for high performance, speed and sensitivity
- Internal camera with adjustable LED, focal & reticle positioning for fast & accurate analysis spot positioning, 5 image captures/data point
- Air, helium and vacuum path capable as well as pressure and temperature compensation for expanded usability
- On-board or PC live spectral and chemical analysis; advanced PC data analysis software: Bruker Instruments Tools (BIT), EasyCal™ and Artax™
- Touchscreen operation, wireless communication, battery operation, tripod compatible, lightweight, transport case, calibrations!



ALPHA II Mobile FT-IR

- High wavenumber accuracy for reliable library searching
- Dedicated art object analysis module for non-destructive analysis
- Universal sampling compartment with QuickSnap™ easy-to-exchange sampling modules for solid, liquid, powder or gas samples
- OPUS/Mentor easy-to-use software guides the user through the steps of an analysis
- Touchscreen operation, wireless communication, battery operation, tripod compatible, lightweight, transport case



BRAVO Handheld RAMAN

- Duo LASER excitation for the highest sensitivity across a large spectral range of 200 cm⁻¹ to 3200 cm⁻¹ for maximum unambiguous verification of materials
- Sequentially Sifted Excitation SSE™ technique manages effective mitigation of fluorescence allowing a much wider range of materials
- Class 1M laser safe
- Build, validate and manage spectra libraries; and, fulfill demands of post data evaluation with OPUS spectroscopy software
- Touchscreen operation, wireless communication, battery operation, tripod compatible, lightweight, docking station, transport case

• **Contact Us**
www.bruker.com/art-conservation

TRACER 5i (ED-XRF)

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ALPHA II (FT-IR) and BRAVO (RAMAN)

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