

Handheld XRF Spectrometer

Bruker TRACER 5i pXRF

TRACER 5i is the high value in-situ pXRF performer synchronizing power, function, precision and accuracy for dynamic, field capable laboratory-like elemental analysis.

The TRACER 5i settings and measurements can be controlled on the handheld or with Artax™ advanced spectral analysis PC software, via WiFi or USB.

Users can also develop their own calibrations with EasyCal PC software for empirical correlations. These can be transferred to the TRACER 5i operating system for point-and-shoot tests.

FEATURES

In-Situ Untethered & Interactive

- Integrated display embedded operating and analytical software
- Relaxed Hand Grip™ strap for comfort and security
- EasyAccess™ Rail for on-the-go accessories
- Control, save and send with USB, Wi-Fi, Bluetooth

Fast, accurate spot positioning

- Internal camera with adjustable LED for full view
- Target area and reticle positioning for precision
- Remote view projection for challenging objects
- Confidence in analytical results

High Performance

- SharpBeam™ geometry for minimized distance between sample and detector
- Pressure and temperature monitoring and compensation
- Automated filter wheel AND manual filter slot
- Air, helium or vacuum capable
- Most sensitive TRACER available

Complete user control

The TRACER 5i allow complete user control of the excitation conditions. These can be developed using recommended settings in the software or user preferences.

- Current
- Voltage
- Automated filter
- Manual filter
- Sample spot size
- Vacuum, Helium or air



APPLICATIONS

- Soil Analysis for Archaeological Science
- Art conservation
- Research & Teaching
- Obsidian Composition Analysis: Sourcing Obsidian
- Archaeometry and Archaeological Science
- Mudrock/Shale Chemostratigraphy
- Strategy for Developing and Calibrating Shale and Mudstone Chemostratigraphies
- Food Safety & Agriculture
- NAGPRA Compliance
- Nondestructive Testing (NDT)
- Elemental analysis
- Pigment analysis
- Meteorite Testing & Analysis

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

Handheld XRF Spectrometer



Bruker TRACER 5i pXRF

SPECIFICATIONS

Excitation Source	4W Rh target X-ray tube. 6-50kV, 5-200 μ A, adjustable automated X-ray voltage and current for specialized application optimization
Detector	Proprietary 40 mm ² SDD detector; Typical resolution < 140eV @ 250,000cps Mn Ka
Pressure/Temperature Compensation	Yes
Spot Size	Selectable collimation includes 3 and 8 mm
Filters	Selectable automated internal 5 position filter changer with pre-installed filters; manual insertion filter/secondary target slot for factory or user-made filters; two manual filter holders
Geometry	Features patented SharpBeam™ beam path for best performance at low power
Beam Path	Selectable beam path: vacuum, helium or air
Elemental Range	Na – U
Sample Temperature	Default to 150°C (302°F) with Ultralene® window.
Internal Camera	Included
Weight	1.9 kg (4.1 lbs.) with battery or 1.6 kg (3.6 lbs.) without battery
Dimensions L x W x H	27.3 cm x 9.4 cm x 29.5 cm (10.75 in. x 3.7 in. x 11.6 in.)
Testing Modes	Spectrometry, Precious Metals
Convenience	TrueTouch™ trigger switch, ambidextrous Relaxed Grip Strap™ and EasyAccess™ rail mount for accessories
Operating Environment	Operating Temp: -10°C to +50°C (+14°F to 122°F); Splash and dust proof (IP54)
Power	Li-Ion battery; AC adapter
Interactive Touchscreen	9.4 cm (3.7 inch) integrated color LCD; TFT active matrix, transfective; 640 x 480 pixels; 65,536 colors
PC Operating System	Windows® 7, Windows® 8 or Windows® 10
Control Software	Full control OS on analyzer; Bruker Instrument Tools PC software
Analysis Software	Point-and-shoot and live spectra on analyzer; point-and-shoot, live spectra and full qualitative, semi-quantitative and quantitative software on PC (Artax & EasyCal software included)
Data Storage	8GB standard, expandable to 64GB. Internal memory: 8,000 readings with spectra (maximum). USB flashdrive: 80,000 readings with spectra (minimum)
Data Transfer	USB Data storage, I/O ports, Wi-Fi and Bluetooth connectivity to save and transmit data from the field
System Safety	Password protection; no sample (backscatter) shutoff, IR proximity sensor
Languages	Chinese, Chinese simplified, Dutch, English, French, French Canadian, German, Indonesian, Italian, Japanese, Korean, Polish, PortugueseBR, Russian, SpanishMEX, SpanishSPN, Thai, Turkish
Certification	CE, cTÜVus, FCC part 15

Specifications subject to change without notice.

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

Handheld XRF Spectrometer



Bruker TRACER 5i pXRF

CALIBRATIONS

- Obsidian
- Heavy Metals and Elemental Nutrients in Soil
- Mudrock
- Alloy LE
- Soil LE
- GeoChem LE
- GeoExploration
- Limestone
- Restricted Materials
- Food Safety
- Food Quality
- Ceramics
- Industrial LIP
- Precious Metal LE
- LowPbiCu
- Maritime Sulfur
- Filter and Dust Wipe

APPLICATIONS & MATERIALS

TRACER pXRF analyzers serve a wide range of applications and material needs from everyday point-and-shoot testing to the ever-changing complexities of advanced applications and research.

Whether it is in art conservation and archaeology, for teaching, in food safety and agriculture applications, for geochemistry or advanced materials, TRACERs can thoroughly and accurately analyze the elemental composition and identify standard or complex materials.

TRACERs can analyze multiple sample types, including liquids, slurries, powders, soils, sediment, sludge, cellulose, polymers, paper, solids, metals and alloys.



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com