
BRUKER ELEMENTAL TRACER IIISD



Bruker Elemental
415 N. Quay St.
Kennewick, WA
99336

Tracer IIISD

Dimensions

30cm x 10cm x 28cm (11.8 in x 3.9 in x 11 in) L x W x H

Weight

2.04 kg (4.49 lbs) with battery and PDA 1.63 kg (3.6 lbs) without battery and PDA

Detector

10mm² X-Flash Detector.

Resolution better than 150 eV at Mn KA1. Count rate >180,000cps

Excitation Source

Rh target X-ray 2 W tube. Max: 30μA at 40 kV; 55μA at 15 kV

Filter

Manual filter control, user can create new filters. Filters included by default are:

1. .0254mm Ti/.3048mm Al
2. .0254mm Cu/.0254mm Ti/.3048mm Al
3. .1524mm Cu/.0254mm Ti/.3048mm Al
4. .0245mm Ti

Testing Modes

Bruker S1PXRF and Artax on PC; Empirical Calibration on PDA

Calibrations

Standard: Mudrock Calibration Set, trace metals and light elements

Obsidian Calibration Set

Metal Alloys: Aluminum, Cobalt, Copper, Gold, Iron, Nickel, and Titanium Alloys

Atmosphere

Instrument operation in air or under vacuum for improved light element performance. Polymer window.



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Operating Range

-10°C to +50°C (+14°F to 122°F)

Power

Two Li-Ion batteries; Battery Charger; AC Adapter

PDA Display

240 x 320; 65,536 colors; back lit; touch screen

PDA Software

Microsoft® Windows Mobile® 5.0 for Pocket PC Bruker Elemental S1 proprietary software

PC Operating System PC Software

Windows® XP, Windows® 7, Windows® 8

Bruker Elemental proprietary software: S1PXRF, S1CalProcess, X-Ray Opps

System Safety

Key Lock; Password Protection; No sample (backscatter) shutoff

Data Storage

512 MB Memory Card allows storage of thousands of spectra

Certification

CE, cTÜVus, IEC 61010-1:2002 by TÜV SÜD

Camera

Misumi MO-B1003 (MO-B1003L-65-N), with lens LP10065-50LIR-31. 1/10"

Color CCIQ II Pico camera with white LED light x 4

Pixel: 400 x 400 (NTSC / PAL)

3300mV/Lux



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Vacuum

Weight

3.63 kg (8 lbs)

Dimensions

30cm x 20.5cm x 8cm (11.8 in x 8.1 in x 3.15 in) W x H x D

Operating Power

Two Ni Metal Hydride; Battery Charger; AC adapter

Vacuum Achieved

Typically 1 torr or less

Operating Range

+5°C to 50°C (41°F to 122°F)

Certification

CE, cTÜVus, IEC 61010-1:2002 by TÜV SÜD
