

SPECTRO TITAN

Benchtop XRF spectrometer



The SPECTRO TITAN is designed for the analysis of Na to U, from low ppm levels to 100 % concentrations in almost any matrix (solid, powder, slurry or solution). This, combined with its small footprint, make the SPECTRO TITAN a welcome addition to any laboratory bench or production setting. With its 30 kV, 9 W X-ray tube source and proportional counter detector, complete with programmable X-ray tube and Ross/Hull detector filters, it offers unparalleled sensitivity, selectivity, and precision compared to any EDXRF analyzer in its price range.

Optional high performance features include a 35 kV X-ray tube for improved heavy element performance, purgeable optics for optimal low-Z performance, multi-position sample tray and a high resolution SCD detector.

The SPECTRO TITAN features the new X-Site^{Pro} software running under Windows for easy routine operation. It also allows operators to easily develop new calibrations for changing QC needs and R&D applications. In addition, it makes data readily accessible to other programs for data tracking, statistical process control, manipulation, and virtually infinite storage capabilities.

Whether you're looking for a sophisticated lab grade instrument or a durable benchtop gauge, the SPECTRO TITAN's flexible platform is customizable to fit your analysis needs, and your budget.

Technical Data

Detection Components

- 30 kV, 9 W, side window X-ray Tube choice of Rh, Ag, Fe, Ti, Mo, Y, or Mo anodes
- 30 kV high voltage generator
- Voltage selectable in 1 kV increments
- 1.8 inch diameter gas filled proportional counter, 0.5 inch entrance window, 0.5 or 1.0 mil Be-window thickness
- 30,000 CPS maximum throughput
- 4,000 channel multi-channel analyzer (MCA)

X-Site Pro Software

- 32-bit code running under Windows 98
- Easy-to-use routine interface
- Complete quantitative and qualitative capabilities.
 - Method developer for easy addition of new calibrations.
 - Number of calibration models limited only by hard disk.
 - 20 or more elements per calibration method, depending on application
 - Support for: Ross/Hull detector filters, mathematical spectral deconvolution, interelement (Alpha) corrections
- SpectraView
Live spectrum display, overlap Spectra, KLM markers, regions of interest

Options

- Width: 590 mm/23 inches
- Depth: 400 mm/16 inches
- Height: 300 mm/12 inches
- Weight: 21 kg/46 pounds
- 32 or 40 mm diameter sample, pans or solid samples

Excitation Components

- 35 kV, 9 W, X-ray tube and 35 kV generator, optimal heavy element excitation
- Up to 6 X-ray tube filters, software controlled, enhanced sensitivity and selectivity

Detection Components

- Detector filters (Ross/Hull, up to 6)
- High resolution SCD detector
- He or N₂ purge

Hardware Components

- 10 position sample tray

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AMETEK
SPECTRO ANALYTICAL INSTRUMENTS

GERMANY

SPECTRO A. I. GmbH & Co. KG
Boschstrasse 10
D-47533 Kleve
Tel: +49.2821.8922102
Fax: +49.2821.8922202
info@spectro.com

ROMÂNIA

Reprezentanța locală
SPECTRO SERVICE ROMANIA
Str. Ec. Teodoroiu nr. 10, bl. A1,
sc. A, ap. 6, 105600 - Câmpina
Tel: 0244 373 278
Fax: 0244 374 093
office@spectro.ro

