SPECTRO
AMETEK
When results matter

SPECTROCUBE

ED-XRF Spectrometers
– Optimized For Your Application

Fastest in its class: Twice as fast as typical testing, in combination with high precision

SPECTRO**CUBE**

The SPECTROCUBE ED-XRF analyzer delivers easy, reliable, accurate, high-throughput analysis for a variety of applications, e.g., the analysis of precious metals, compliance screening and for many process monitoring applications like the analysis of fuels and lube oils.

The instrument is optimized for your application. If the analysis of small spots is required, the SPECTROCUBE D is the perfect choice. For many process monitoring applications the SPECTROCUBE C is very well suited.

The SPECTROCUBE analyzer incorporates state-of-the-art ED-XRF technology, including a high-resolution and high-count rate detector to deliver short measurement intervals, high sample throughput, and low downtime.

With an unparalleled ease of use, SPECTROCUBE enables a fast, smooth workflow even for minimally trained users. Its compact footprint fits tight benchtop spaces, yet accommodates a wide range of tiny to large samples.

ANALYSIS OF PRECIOUS METAL ALLOYS

Featuring exceptional speed and performance, SPECTROCUBE provides high precision for a wide range of concentration levels — plus testing times as low as 15 seconds that enable a throughput of up to hundreds of samples per working day. On jewelry samples large or small, the instrument can analyze an area down to a spot size of 0.2 mm, that's among the industry's smallest spot sizes.

COMPLIANCE SCREENING

The SPECTROCUBE ED-XRF is well suited for compliance screening, including RoHS applications. It also can be used to test for additional elements indicating the presence of critical raw materials (CRM) or substances of very high concern (SVHC) as the long as the CRMs or SVHCs contain at least one of the elements detectable with the SPECTROCUBE.

PROCESS MONITORING

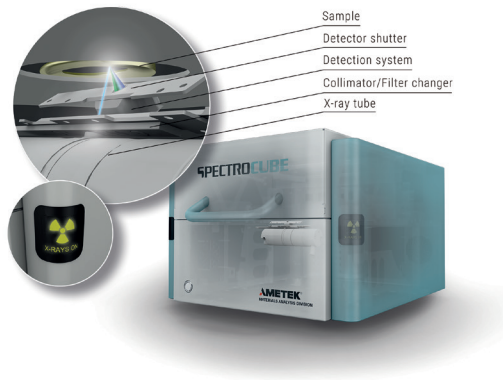
In process monitoring applications, SPECTROCUBE provides exceptional ease of use — even for inexperienced users — using optimized calibrations for your applications. And it easily performs screening analyses using the optional Fundamental Parameter (FP) package.

SPECTRO**CUBE** ED-XRF ANALYZER FOR SMALL SPOT APPLICATIONS

The compact SPECTROCUBE small-spot spectrometer combines ease, speed, and affordability. Its innovations help make it the ideal benchtop solution for high-volume precious metals analysis and compliance screening.

The analysis results are documented with the image of the tested spot on the sample, an overview image of the analyzed piece can be added to the report as well. For the analysis of jewelry alloys it can be used according to the test method ISO/FDIS 23345 ("Jewellery and precious metals — Non destructive precious metal fineness confirmation by ED-XRF").

For compliance screening the instrument fulfills strict requirements, which is also documented in a certificate from CESI, where the SPECTROCUBE is rated as a "professional grade instrument" according to GB/T 33352-2016. The analysis methods do not only cover the analysis of elements from currently listed substances, they also determine the concentrations of many more elements in your samples, offering additional information that may be required for future regulations.



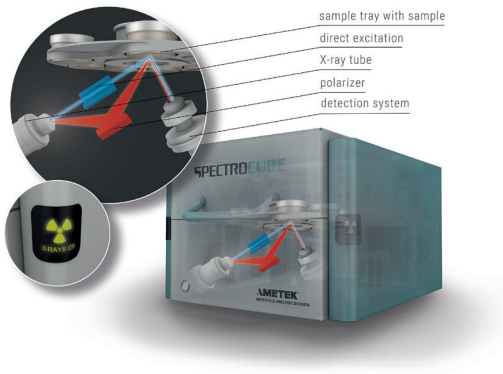
But this version of the instrument is not limited to those applications: It can also be calibrated for other challenging applications like the testing of gemstones for their composition, allowing the interpretation of authenticity and origin.

SPECTRO**CUBE** ED-XRF ANALYZER FOR PROCESS MONITORING APPLICATIONS

The technological innovations of the SPECTROCUBE help make it the ideal benchtop solution for process monitoring applications. For unattended operation the instrument can be equipped with a multi-position auto-sampler.

The SPECTROCUBE C is perfectly prepared to handle the requirements of high sample throughput and high precision. The applications include, but are not limited to, the analysis of low sulfur (S) content in fuels, the analysis of additives in oil or the analysis of crude oils for the content of sulfur, nickel, vanadium and iron.

It can also handle applications like the analysis of slag, cement and refractories. SPECTRO offers application templates for the analysis of samples prepared as pressed pellets or fused beads. Assistance is also available for fast integration of these, or other, applications into your processes.



For many applications the instrument can be calibrated to comply with relevant industry test methods.

SPECTRO**CUBE**

ED-XRF SPECTROMETER

ENSURED AFFORDABILITY

SPECTROCUBE provides dependable, high-throughput, cost-effective analysis. Its competitive pricing and optimized cost/performance ratio make it affordable for refineries, testing laboratories, production lines and government authorities at all levels. Finally, its high-reliability components and design keep maintenance expenses low.

COMPACT, RELIABLE DESIGN

The analyzer's rightsized, ruggedly built cabinet fits tight benchtop spaces. Its bottom-up design locates detection, excitation, and processing components below the chamber floor. Thus users can run high numbers of samples simply, quickly, and conveniently. Most components have been time-tested by use in the high-end SPECTRO XEPOS analyzer. Results: highly reliable SPECTROCUBE components are securely protected against contamination, damage — and unneeded downtime. So the analyzer can provide trouble-free performance over a long service life.

GLOBAL SUPPORT

AMECARE PERFORMANCE SERVICES AMETEK

Applications in process monitoring depend on fast, accurate, uninterrupted analysis for productivity — and profitability. To ensure that reliable SPECTROCUBE analyzers keep up the pace, SPECTRO offers the AMECARE Performance Services program.

Customers report unmatched levels of coverage, application knowledge, and uptime. More than 200 AMECARE service engineers in 50 countries help ensure peak performance and extended life for every SPECTROCUBE instrument. AMECARE's high-value, customized services include proactive maintenance programs; application solutions; access to specialists; and instrument-specific training.

www.spectro.com

GERMANY
SPECTRO Analytical Instruments GmbH
Boschstrasse 10
D-47533 Kleve
Tel. +49.2821.892.0
spectro.sales@ametek.com

U.S.A.
SPECTRO Analytical Instruments Inc.
50 Fordham Rd
Wilmington 01887, MA
Tel. +1 800 548 5809
+1 201 642 3000
spectro-usa.sales@ametek.com

CHINA
AMETEK Commercial
Enterprise (Shanghai) CO., LTD.
Part A1, A4 2nd Floor Building No. 1 Plot Section
No. 526 Fute 3rd Road East; Pilot Free Trade Zone
200131 Shanghai
Tel. +86.400.022.7699
spectro-china.sales@ametek.com

TÜVRheinland CERTIFIED Management System ISO 9001:2015 ISO 50001:2018

Subsidiaries:
▶**FRANCE:** Tel. +33.1.3068.8970, spectro-france.sales@ametek.com ▶**GREAT BRITAIN:** Tel. +44.1162.462.950, spectro-uk.sales@ametek.com
▶**INDIA:** Tel. +91.22.6196.8200, sales.spectroindia@ametek.com ▶**ITALY:** Tel. +39.02.94693.1, spectro-italy.sales@ametek.com
▶**JAPAN:** Tel. +81.3.6809.2405, spectro-japan.info@ametek.co.jp ▶**SOUTH AFRICA:** Tel. +27.11.979.4241, spectro-za.sales@ametek.com

SPECTRO operates worldwide and is present in more than 50 countries. For SPECTRO near you, please visit www.spectro.com/worldwide
© 2021 AMETEK Inc., all rights reserved, subject to technical modifications • C-21, Rev.1 • 80902738 • Photos: SPECTRO, Adobe Stock
Registered trademarks of SPECTRO Analytical Instruments GmbH • SPECTRO: USA (3,645,267); EU (005673694); "SPECTRO": EU (009693763); SPECTROCUBE: USA (6,082,269); EU (017937930)