



When results matter

SPECTROSCOUT

PORTABLE ED-XRF SPECTROMETER
FOR LABORATORY & AT-LINE TESTING



Bringing laboratory-quality
analysis to the production line

AMETEK[®]
MATERIALS ANALYSIS DIVISION

Fast, reliable, accurate analysis at the point of production

SPECTROSCOUT

Real-time analytical measurements are essential for monitoring the elemental composition and quality of many processed or manufactured goods.

Users require dependable accuracy and sensitivity at all detection levels, depending on the application, from high-percentage concentrations to trace elements. When results are off-specification, reliable analyses are also key to making timely, data-based process changes.

Many organizations maintain high power wavelength-dispersive XRF or ICP spectrometers in their laboratories to determine elemental compositions. Unfortunately, transporting samples from line to lab wastes precious time. Others locate the spectrometers at the line, risking impaired operation or failure of these sensitive instruments in the production environment.



SPECTROSCOUT PORTABLE ENERGY DISPERSIVE X-RAY FLUORESCENCE (ED-XRF) ANALYZER

Unlike repackaged handheld X-ray analyzers, SPECTROSCOUT delivers much of the analytical power of top-grade laboratory benchtop instruments but in a durable, compact, easily portable form. SPECTROSCOUT can be calibrated in the lab and then sent straight to the manufacturing floor. It's simple to operate with a little introductory training. And it produces audit-traceable results, right at the point of production – all at surprisingly affordable cost.

EXCEPTIONAL PERFORMANCE

SPECTROSCOUT provides outstanding accuracy at concentration levels from ppm to percentages. When measuring high concentrations of several elements, superior sensitivity lets it produce reliable results very quickly. And it gives good light-element performance for powder or solid samples with no need for heavy, costly helium flushing tanks. In fact, the SCOUT is ideal for producers of processed or manufactured goods including chemicals, oil, metal surface coatings, pharmaceuticals, cosmetics, food, feedstock, and more.



EXCELLENT EASE-OF-USE

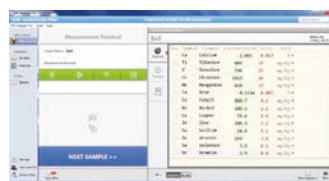
Line personnel find SPECTROSCOUT a snap to operate, without excessive training. Simplified software interacts via a standard computer. Predefined application packages fit the task at hand. Unique iCAL calibration takes just one integrated sample and 5 minutes, reducing recalibration work. And light weight (12 kg/26.46 lb) plus small size (350 x 306 x 306 mm/10.7 x 12.1 x 12.1 in) provide convenient portability and space-saving fit.

SPECTROSCOUT

Laboratory quality with the right results on the line

SPECTROSCOUT COMPACT DESIGN

SPECTROSCOUT offers lab-class advantages with options such as convenient customer-specific calibrations, or advanced unknown-sample extrapolative screening. Superlative standard performance for every SPECTROSCOUT includes good spectral resolution and low limits of detection across a range of relevant materials — from heavy elements such as uranium to light elements such as sodium.



Element	Concentration	Unit	Limit of Detection
Ca	0.0001	g/g	0.0001
Fe	0.0001	g/g	0.0001
Al	0.0001	g/g	0.0001
Si	0.0001	g/g	0.0001
Mg	0.0001	g/g	0.0001
Na	0.0001	g/g	0.0001
K	0.0001	g/g	0.0001
Cr	0.0001	g/g	0.0001
Mn	0.0001	g/g	0.0001
P	0.0001	g/g	0.0001
S	0.0001	g/g	0.0001
Cl	0.0001	g/g	0.0001
Br	0.0001	g/g	0.0001
I	0.0001	g/g	0.0001
B	0.0001	g/g	0.0001
C	0.0001	g/g	0.0001
N	0.0001	g/g	0.0001
O	0.0001	g/g	0.0001
F	0.0001	g/g	0.0001
Ne	0.0001	g/g	0.0001
Ar	0.0001	g/g	0.0001
Kr	0.0001	g/g	0.0001
Xe	0.0001	g/g	0.0001
U	0.0001	g/g	0.0001
Th	0.0001	g/g	0.0001
Pa	0.0001	g/g	0.0001
Uranium	0.0001	g/g	0.0001
Thorium	0.0001	g/g	0.0001
Protactinium	0.0001	g/g	0.0001
Plutonium	0.0001	g/g	0.0001
Americium	0.0001	g/g	0.0001
Curium	0.0001	g/g	0.0001
Berkelium	0.0001	g/g	0.0001
Californium	0.0001	g/g	0.0001
Einsteinium	0.0001	g/g	0.0001
Fermium	0.0001	g/g	0.0001
Mendelevium	0.0001	g/g	0.0001
Nobelium	0.0001	g/g	0.0001
Lanthanum	0.0001	g/g	0.0001
Cerium	0.0001	g/g	0.0001
Praseodymium	0.0001	g/g	0.0001
Neodymium	0.0001	g/g	0.0001
Europium	0.0001	g/g	0.0001
Gadolinium	0.0001	g/g	0.0001
Terbium	0.0001	g/g	0.0001
Dysprosium	0.0001	g/g	0.0001
Ytterbium	0.0001	g/g	0.0001
Lutetium	0.0001	g/g	0.0001
Hafnium	0.0001	g/g	0.0001
Tantalum	0.0001	g/g	0.0001
Tungsten	0.0001	g/g	0.0001
Rhenium	0.0001	g/g	0.0001
Osmium	0.0001	g/g	0.0001
Iridium	0.0001	g/g	0.0001
Rhodium	0.0001	g/g	0.0001
Palladium	0.0001	g/g	0.0001
Silver	0.0001	g/g	0.0001
Cadmium	0.0001	g/g	0.0001
Indium	0.0001	g/g	0.0001
Thallium	0.0001	g/g	0.0001
Lead	0.0001	g/g	0.0001
Bismuth	0.0001	g/g	0.0001
Polonium	0.0001	g/g	0.0001
Astatine	0.0001	g/g	0.0001
Radon	0.0001	g/g	0.0001
Francium	0.0001	g/g	0.0001
Radium	0.0001	g/g	0.0001
Actinium	0.0001	g/g	0.0001
Protactinium	0.0001	g/g	0.0001
Thorium	0.0001	g/g	0.0001
Uranium	0.0001	g/g	0.0001

FAMILIAR INTERFACE

Intuitive design increases ease and productivity without extensive user training.

PRECISION AND ACCURACY

SPECTROSCOUT provides highly precise measurements from trace to minor to major concentrations of relevant elements. That kind of precision — unmatched by other portable elemental analyzers in its class — enables it to reach performance levels not previously possible.

COMPETITIVE COST

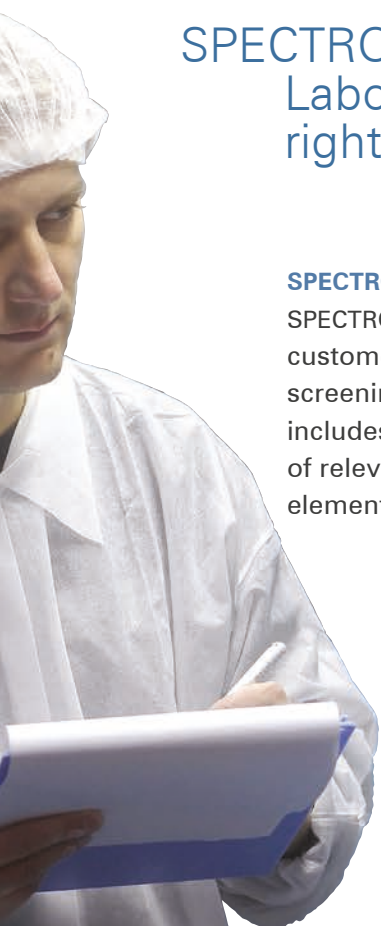
A SPECTROSCOUT analyzer's purchase price is highly competitive with other portable ED-XRF instruments (while its performance surpasses them). In many cases, its price is also half that of dedicated laboratory instruments. Finally, since its fast, accurate information results in less off-spec product and rework — for greater overall productivity — SPECTROSCOUT promises significant savings for years to come.

GLOBAL SUPPORT

Industrial operations demand that their instruments be ready for challenging use whenever needed. To ensure that SPECTROSCOUT analyzers are always up to the task, SPECTRO provides the AMECARE Performance Services program.

More than 200 AMECARE service engineers in over 50 countries help ensure optimum performance and extended life for every SPECTROSCOUT instrument. AMECARE's high-value, customized services include proactive maintenance programs; application solutions; access to relevant experts; and instrument-specific training.

AMECARE
PERFORMANCE SERVICES





SPECTROSCOUT Specifications



Detector	Silicon drift detector (SDD)
Excitation	X-ray tube, rhodium (Rh) anode, 50 kV max.
DIMENSIONS	
Height	350 mm (13.8 in)
Width	306 mm (12.1 in)
Depth	306 mm (12.1 in)
Weight	12 kg (26.46 lb)
Spectrometer	Integrated PC with touchscreen Bluetooth, wireless LAN, USB interfaces Netbook
Software	SPECTRO XRF Analyzer iCAL (Intelligent Calibration Logic) Data Manager
Accessories	USB cable Consumables
Options	Printer Helium (He) flush and sample spinner Vacuum and sample spinner Battery pack Transport case Video camera

FULL ANALYZER FAMILY

SPECTRO provides a comprehensive suite of advanced elemental analyzers. ED-XRF analyzers include the high-end SPECTRO XEPOS benchtop analytical instrument, the small spot analyzer SPECTRO MIDEA, the portable yet powerful SPECTROSCOUT and the SPECTRO xSORT handheld XRF spectrometers.

Whatever the product, SPECTRO's more than 30 years of experience in elemental analysis and unparalleled record of technological innovation ensure excellent results.

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▶ **SPECTRO** operates worldwide and is present in more than 50 countries. For SPECTRO near you, please visit www.spectro.com/worldwide

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