SPECTRO AMETEK

SPECTRO **xSORT** XHH04

Handheld ED-XRF Spectrometer



Reliable analysis of metals and alloys on the spot

SPECTRO **xSORT**
The innovative onsite metal testing analyzer



SPECTRO Analytical Instruments is an acknowledged leader in benchtop spectrographic analysis for laboratories worldwide, with decades of expertise in technologies including ***energy dispersive X-ray fluorescence (ED-XRF)***. The latest SPECTRO xSORT models channel that deep understanding, combined with a long history of advanced metals measurement, into an overall new handheld XRF analyzer. It's packed with a host of new features and designs to maximize user speed, ease, and convenience — along with advanced analytical performance.

This innovative analyzer quickly handles just about every onsite metal testing need imaginable, from the scrapyard or factory to the foundry floor. Powerful, flexible SPECTRO xSORT provides outstanding coverage across the spectrum for all common types of metals and alloys — including 46 elements in 16 metal matrices. All without requiring operator decisions.

And if an uncommon element or application is not factory-installed, SPECTRO xSORT provides experienced users with a smart on-site calibration option on the PC.

THE SPECTRO xSORT HANDHELD X-RAY FLUORESCENCE (XRF) SPECTROMETER

furnishes high-throughput, highly reliable elemental testing and spectrochemical analysis of countless metals and their alloys in widely varying conditions.

FAST

Entry-level SPECTRO xSORT Alloy delivers metal grade identification in a few seconds. The even more powerful standard SPECTRO xSORT analyzes most alloys in only 2 seconds! Even alloys with light elements (aluminum, magnesium, silicon, phosphorus, sulfur, etc.) can be identified in 7 seconds. So, plant personnel or contractors can complete hundreds of inspections per shift — boosting productivity and profitability.

EASY

Reduced in size compared to previous models and well balanced, SPECTRO xSORT is optimized for day-long, fatigue-less, one-handed operation. The ergonomic design includes a light-squeeze trigger; a 5" big, easy-reading, wide-angle, high-definition display; extra physical buttons ideal for gloved hands — and a smaller probe head for access to tight spots. Results: effortless operation with all-day comfort.

FLEXIBLE

Factory methods offer maximum analytical flexibility, and the SPECTRO xSORT offers 2 standard spot sizes (3 mm and 5 mm). Users get ultra-wide coverage of elements and alloys, plus sample sizes. And operators don't have to switch methods between samples.

SPECTRO **xSORT** advantages everywhere you go





Optional overview camera — capture images or barcodes / QR codes

Optional GPS for location & documentation

Optional target video camera — test spot images

High-resolution, high-sensitivity silicon drift detector (SDD) or entry-level Si-PIN detector

Shutter for internal component protection (detector and tube). Serves as sample for SPECTRO's unique iCAL (Intelligent Calibration Logic) standardization - for continuous system monitoring and correction so that all installed methods are always ready for use.

Connections: WiFi, Bluetooth to network with phone, tablet, PC, notebook, printer

Lightweight: 2.97 lb / 1.35 kg (3.52 lb / 1.6 kg with battery)

X-ray safety gasket — prevent backscatter radiation from light element matrix samples

Long-lasting quick-change battery — up to 300 measurements per hour, for up to 5 hours with 2-second readings (or 90 per hour with 10-second readings)

microSD card slot, USB-C port

Charging port / power supply

Easy-reading 5-inch, high-definition touch display

Extra control buttons for gloved operation

FIELD-PROVEN QUALITY

SPECTRO xSORT spectrometers are used in the plant, on the jobsite, or in the most challenging field locations. They deliver reliable results in a matter of seconds. And they're optimized for fatigue-free onsite measurements.

POWERFUL SOFTWARE

SPECTRO xSORT combines powerful XRF Analyzer Mobile analytical operating software with fast-reaction Industrial Android modules (for touch operation, hardened security, quick access to all functions, and Windows PC compatibility). Standard features include spectra viewer and a customizable metal grade library.

BUILT-IN PROTECTION & STANDARDIZATION

The shutter that automatically closes the measurement window between analyses — to protect internal components — also functions as the sample material for unique, automatic iCAL standardization. All methods loaded into SPECTRO xSORT are always ready for use.

METAL DATABASE

Accessible via XRF Analyzer Pro software, the optional SPECTRO Metal Database helps extend prepackaged libraries or create customized grade libraries.

INFORMATION-INTENSIVE

The instrument is fully equipped for comprehensive data capture and documentation, everywhere it goes. Features and options include everything from an onboard GPS and two cameras to WiFi and Bluetooth to microSD storage and USB connectivity.

SPECTRO **xSORT**
grab one and go



Docking Station and Sample Chamber

An optional docking station enables fast, easy instrument insertion for stationary operation when small parts need to be tested. Another smaller option is the attachable sample chamber – to be used on the go as a mini-lab. Besides a PC or notebook, operators can use an Android phone or tablet, to control the unit — wirelessly or via USB.

SPECTRO xSORT

With its top-of-the-line SDD, the SPECTRO xSORT provides reliable, high-productivity measurement and analysis. Get metal grade analysis in 2 seconds for most alloys, or only 7 seconds for light elements. It's the handheld analyzer of choice for scrap metals sorting, positive material identification (PMI), and more!

SPECTRO xSORT Alloy

The entry-level SPECTRO xSORT Alloy utilizing a Silicon PIN (Si-PIN) detector delivers grade identification in seconds, without extensive analysis. It is ideal for applications such as testing incoming materials where "light" elements are not required by the customer.

Excellent Support

AMECARE Performance Services maximize uptime for products and services from SPECTRO Analytical and associated companies. The program is staffed by hundreds of experienced service engineers in 50 countries. They provide high-value, customized support for optimum performance plus the longest possible equipment life. Ask about proactive performance maintenance, performance upgrades, applications solutions, consultation, targeted training, and ongoing support.

AMECARE PERFORMANCE SERVICES
AMETEK

Complete Line

The innovative handheld solution, SPECTRO xSORT joins SPECTRO's stationary flagship SPECTROLAB S, a market leader for ultra-precise analysis; SPECTRO's best-selling SPECTROMAXx benchtop metal analyzer; and the powerful, portable SPECTROPORT and mobile SPECTROTEST metal analyzers. Whatever the product, SPECTRO's 40-plus years of experience in elemental analysis — along with its unparalleled technical innovation and excellence — ensure the best results in the business.

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