Revolutionary Capability

Fast, accurate, portable XRF analysis of ionic salts

The Thermo Scientific™ portable IonicX™ XRF Analyzer provides accurate ionic salt raw material identity verification and high sample throughput to pharmaceutical and biopharmaceutical manufacturers.

An innovative alternative to conventional bench-based analytical methods, IonicX delivers correct analysis of ionic salts at the point of use, in seconds, and with minimal sample preparation.

Applications

- Portable and precise verification of a wide range of ionic salts in seconds anywhere in the manufacturing plant—far faster than traditional benchtop techniques or wet chemistry
- Non-destructive testing of raw materials, preserving production volume and minimizing sampling time to ensure optimal throughput

Analytical performance

Returns lab-quality results. The specificity of the IonicX allow users to scan ionic salts in support of diverse applications. The straightforward testing procedure provides reliable results without the need for substantial operator training.

Rapid results

Powered by a 5W x-ray tube, the IonicX generates fast and accurate results. A dynamic current adjustment ensures optimum sensitivity for each measurement. Results are displayed in real time, providing actionable data and enabling the operator to make correct decisions fast.

Size and weight

Weighing 5.8 pounds (2.6 kilograms) with battery and test stand, the IonicX is the lightest portable XRF analyzer available for the identification of ionic salts. Its small footprint and featherweight design create inherent portability and provide substantial improvements in productivity.



Identify ionic salts in seconds with minimal sample preparation

Regulatory compliance

The IonicX complies with 21 CFR Part 11, offering user access control, audit trails, electronic signatures, and full synchronization capabilities for proper storage of all electronic records.

Design

The integration of portability with accuracy forms the key feature in the design of the IonicX. Discover expanded field use with a compact footprint, reduced manual data input, and minimal sampling efforts which provide the precision of conventional laboratory-based methodologies without the time and costs of quarantining materials, laboratory consumables, without the time and costs of quarantining materials, laboratory consumables and large benchtop systems.

Functionality

Vivid icons and an intuitive application interface ease navigation and workflow. Integrated Wi-Fi connectivity, allows automatic transmission of data from your IonicX device directly to your PC for improved data storage and accessibility.

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Thermo Scientific IonicX™ XRF Analyzer Specifications	
Weight	5.8 lbs. with battery and test stand (2.6 kg)
Dimensions	12 x 12 x 8 in. (30.48 x 30.48 x 20.32 cm)
X-Ray Source	X-Ray Tube: Ag anode (6-50kV, 0-500uA, 5W max) Dynamically adjustable current for optimal sensitivity on every analysis
Detector	Proprietary large area drift detector
Spot Size	Standard: 8 mm collimation
System Check	Built-in standardization via automatic system check
IP Rating	IP54 (splash and dust proof)
Operating Environment	Temperature: 0°C to 50°C (external fan recommended when ambient temperature is greater than 33°C) Humidity: 10% to 90% relative humidity non-condensing
Display	Tilting, color, resistive touchscreen display
Power	12V lithium-ion battery, or 12V DC, 3A, 3.6W power supply
Macro Camera	Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations
Micro Camera	Integrated CCD micro camera for locating and recording measurement positions
Bluetooth	Supports print functionality and barcode reader
Memory/Data Storage	512 MB internal system memory/16 GB industrial grade storage Stores approximately 130,000 readings with spectra (fewer if macro and micro images are saved)
Data Entry	Touchscreen keyboard User customizable data entry Optional wireless remote barcode reader
Data Transfer	Wi-Fi, USB
Operating System	Linux
Support Software	IonicX PC software
Security	Password-protected user security
Languages	English
Standard Accessories	Locking shielded carrying case Two (2) lithium-ion battery packs One (1) 110/220 VAC battery charger/AC adaptor Check samples Safety lanyard PC connection cable (USB)
Optional Accessories	Thermo Scientific portable test stand Thermo Scientific mini test stand
Compliance	EMC EN 55011; 2010, EN 61326; 2013, FCC 47 CFR Part 15 Safety EN 61010; 2010 (3rd Ed) with national deviations for US and Canada RoHS EN 50581; 2012
Licensing/Registration	Varies by region; Contact your local distributor

1. The Thermo Scientific™ IonicX XRF analyzer weighs 2.8lbs (1.3 kg) without test stand. The IonicX is the smallest and lightest handheld XRF analyzer leveraging x-ray tube technology.

No. America
Boston, USA

Central and So. America
Sao Paulo, Brazil

Europe, Middle East, Africa
Munich, Germany

Asia Pacific
Hong Kong

Learn more at thermofisher.com/IonicX

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