

Thermo Scientific IonicX Portable XRF Analyzer

Revolutionary Capability

Fast, accurate, portable XRF analysis of ionic salts

The Thermo Scientific™ IonicX™ portable XRF analyzer provides accurate ionic salt identification and high sample throughput to pharmaceutical and biopharmaceutical manufacturers. An innovative alternative to conventional benchtop analytical methods, the IonicX portable XRF analyzer delivers instant analysis of ionic salts with minimal sample preparation, at the point of need.

Applications

- Portable and precise verification of a wide range of ionic salts in seconds anywhere in the manufacturing plant—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 portable XRF analyzer enables users to scan ionic salts in support of diverse applications. The straightforward testing procedure provides reliable results without the need for sample preparation or substantial operator training.

Rapid results

Powered by a 5W x-ray tube, the IonicX portable XRF analyzer 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.



Identify ionic salts in seconds without sample preparation.

Size and weight

Weighing 5.8 pounds (2.6 kilograms) with battery and test stand, the IonicX portable XRF analyzer 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.

Regulatory compliance

The IonicX portable XRF analyzer complies with 21 CFR Part 11, offering user access control, audit trails, 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 portable XRF analyzer. 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, sample preparation and large benchtop systems.

Functionality

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

Product 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: 8mm collimation	
Calibration Modes	NaCl, NaOH, KCl, CaCl ₂ , MgCl ₂	
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	WiFi, USB	
Operating System	Linux	
Support Software	IonicX portable XRF analyzer 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 portable XRF analyzer weighs 2.8lbs (1.3 kg) without test stand. The IonicX portable XRF analyzer is the smallest and lightest XRF analyzer leveraging x-ray tube technology.

 Learn more at thermofisher.com/qaqcsolutions

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