Handheld XRF Analyzer
RoHS Analyzer
TrueX 600

TORONTECH

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The **Handheld XRF Analyzer - RoHS Analyzer | TrueX 600** is a compact, lightweight, and highly portable device designed for rapid and precise elemental analysis in various environments. Featuring a **high-performance X-ray tube** and an **ultra-high resolution detector**, it delivers exceptional accuracy and speed in detecting elements from Ti to U. Its ergonomic design ensures ease of use, even in harsh conditions.

Additionally, TrueX 600 is also equipped with an industrial resistive touch screen, advanced algorithms, and intelligent battery management, making it a comprehensive solution for on-site analysis across industries such as electronics, metallurgy, and environmental protection.

APPLICATIONS

Electronics and Consumer Products: Detects hazardous substances such as Pb, Hg, Cd, Cr, Br, and As, ensuring compliance with RoHS directives.

Geological and Mining Industries: Provides on-site ore grading and mineral composition analysis, facilitating quick assessment of mineral reserves.

Metallurgy and Building Materials: Analyzes the composition of steel, non-ferrous metals, alloys, cement, ceramics, and wood for manufacturing and quality control.

Commodity Inspection and Quality Control: Ensures products across various industries meet specific regulatory and safety standards.

Petroleum and Environmental Protection: Detects trace elements like sulfur (S) and lead (Pb) in petroleum products and monitors pollutants in soil, wood, and other environmental samples.

Food Safety and Medical Applications: Detects trace elements in food products and analyzes trace elements in biological samples for medical and research purposes.

FEATURES/ADVANTAGES

High-Performance X-ray Tube and Detector: Utilizes an ultra-high resolution detector combined with advanced digital multi-channel processing technology, ensuring precise and rapid elemental analysis across a wide range of materials.

Durable and Portable Design: Lightweight with an anti-slip, abrasion-resistant exterior, the TrueX 600 operates effectively in harsh environments, including dusty and rainy conditions, making it ideal for on-site analysis.

Customizable Reporting: Allows users to personalize reports by adding company logos, test results, and other relevant data. The device also supports remote configuration and maintenance via the internet.

Advanced Safety Features: Includes double beam technology for safe operation, gravity-sensing shutdown, and comprehensive radiation safety with low-power X-ray tubes and protection shields.

Intelligent Battery Management: Features real-time monitoring of battery and backup battery capacity through the MSBUS bus system, enabling continuous operation for up to 8 hours on a single charge, ensuring extended field use.

High-Precision and Versatile Analysis: Capable of analyzing both solid and liquid samples with high precision, detecting elements from Titanium (Ti) to Uranium (U), and applicable to various industrial sectors.

Enhanced User Interface: Equipped with an industrial resistive touch screen that offers superior clarity in sunlight and can be operated with gloves, the TrueX 600 is designed for ease of use in field conditions.

Fast and Efficient Performance: Engineered for rapid analysis, the TrueX 600 can identify mineral elements in just 2 seconds, optimizing productivity and efficiency in demanding environments.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DETAILS
Processor	ARM architecture Cortex-A8 1 GHz, 1GB CPU
System	Android 4.2 operating system, 80 MHz ADC digital pulse processor, 4096 MCA channel, 32GB memory, integrated GPS and WIFI
Display	Industrial resistive touch screen, 4.3" size, TFT-LCD with 640 x 480 resolution, automatic brightness adjustment
Data Storage	Built-in 32GB memory, capable of storing 300,000 spectral data and spectrum
Operating Temperature	-20℃ to +50℃
Operating Humidity	≤90%
Material Measurement Capabilities	Pipes, flat surfaces, surface integrals, welds, solid, liquid, and powder
Method of Analysis	X-ray energy dispersive method for fluorescence analysis
Simultaneous Element Detection	Detects dozens of elements simultaneously
Memory and RAM	1GB CPU, 1GB RAM, 32G standard configuration
Measurement Range Content	ppm ~ 99.99%
Reading Time	15 seconds
Battery	Lithium battery with 6800Ah capacity, 8-hour continuous operation, equipped with 110V-220V adapter
Sensor Resolution	Low resolution of 139 eV

SPECIFICATION	DETAILS
Excitation Source	40KV / 100mA-Ag window miniature tube anode X-ray and high voltage source, with adjustable pipe pressure; Ag target (standard), Au, W, Rh targets (optional)
Collimator and Filter	4.0 or 2.0 diameter, automatic switch of 8 filters, 12 groups plus mode for different sample tests
Protection	Water, dust, and shock resistant, includes a waterproof, dust-proof, and shockproof suitcase
Test Window	12mm
Charging System Gas	Helium charging system of ordinary pressure
Security	Standalone password manager mode, built-in double beam technology for safety and protection
Data Transmission	Digital multi-channel technology, SPI data transmission, waterproof miniature USB connection, supports EXCEL and PDF report export, customizable with company logos and other details
Weight	1.6 Kg (with battery) / 3,5 lb
Dimensions	254 x 79 x 280 mm (L x W x H)
Detector	BOOST Si-PIN detector
Range of Detection	All elements between Titanium (Ti) and Uranium (U)
Heat Dissipation	Equipped with a dedicated T-shaped radiator, eliminating the need for cooling time between uses
Power Supply System	Intelligent battery management with real-time monitoring via MSBUS, complies with air transport regulations, 8-hour battery life

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