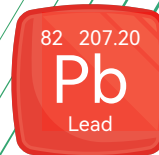
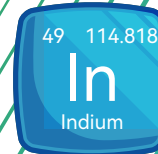
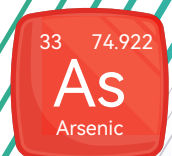
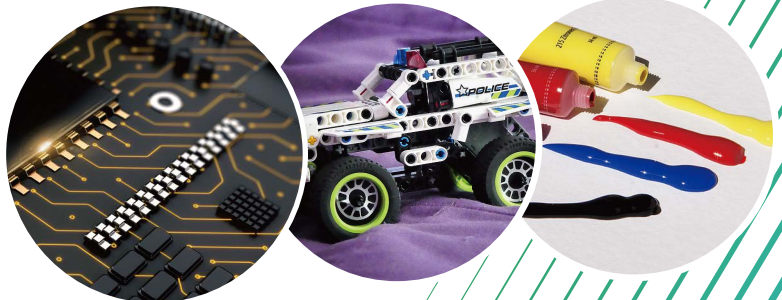


Handheld RoHS Analyzer

Making it a powerful helper in your RoHS compliance analysis





PI-HLD900 Handheld RoHS Analyzer

Accurately Safeguarding the Green Future of Electronic & Electrical Products

In an era dedicated to sustainable progress, PI proudly unveils the PI-HLD900 Handheld RoHS Analyzer—a groundbreaking device engineered to meet the stringent demands of RoHS directives. By leveraging cutting-edge XRF technology, this analyzer ensures electronic/electrical products remain free from hazardous substances, empowering industries to pioneer a greener, healthier future.

- **Precision Detection, Uncompromised**

The PI-HLD900 Handheld RoHS Analyzer delivers unparalleled detection capabilities, swiftly identifying and quantifying critical restricted substances in electronic/electrical products—including lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr⁶⁺), polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE). Powered by high-precision X-ray fluorescence (XRF) technology, it ensures reliable results that empower manufacturers to conquer compliance challenges with confidence.

- **Non-Invasive Testing, Sample Integrity Preserved**

Unlike traditional methods, the PI-HLD900 performs non-destructive analysis without altering samples. This breakthrough preserves product integrity, eliminates waste, and reduces testing costs—a critical advantage for delicate electronic components.

- **Intuitive Operation, User-Centric Design**

Featuring a plug-and-play interface and AI-driven workflows, the PI-HLD900 simplifies complex testing processes. New users achieve operational proficiency within hours, while advanced features like cloud data sync and automated reporting accelerate compliance workflows.



- **Global Compliance, Pioneering Sustainability**

As RoHS regulations tighten worldwide, the PI-HLD900 emerges as a strategic compliance enabler. By combining lab-grade accuracy with field-ready portability, it helps manufacturers navigate evolving environmental standards, minimize audit risks, and accelerate the transition toward circular economy models.

Applications

Due to its portability and high efficiency, the PI-HLD900 handheld RoHS analyzer is particularly well-suited for on-site inspection and analysis applications. Whether for real-time quality control on production lines, rapid material screening in warehouses, or compliance checks during export operations, this handheld RoHS analyzer delivers fast and accurate test results. By enabling immediate detection capabilities in diverse operational environments, it significantly reduces inspection timeframes and operational costs for enterprises and regulatory institutions alike.

● Electronics Manufacturing

In the electronics manufacturing sector, handheld RoHS analyzers serve as critical tools for verifying material and component compliance with RoHS directives. This application enables manufacturers to implement stringent quality control throughout the production chain - from incoming material inspection to finished product verification. By providing real-time elemental analysis, the equipment ensures hazardous substance concentrations (such as lead, mercury, and cadmium) remain below regulatory thresholds, thereby guaranteeing global market access through compliance with EU RoHS 2.0, China RoHS 2, and other international environmental standards.



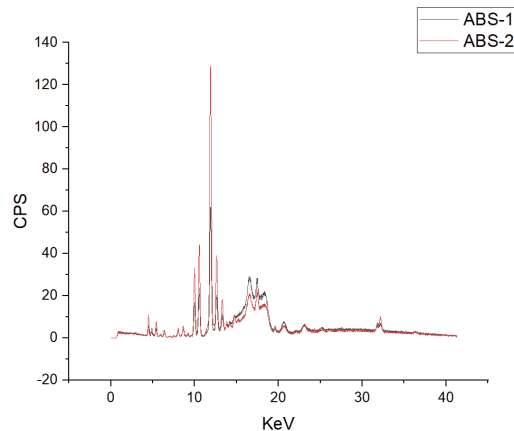
● Toys and Children's Products

This represents another critical application area. As these products frequently come into direct contact with children, their safety is of paramount importance. Handheld RoHS analyzers enable manufacturers and importers to detect hazardous substances such as lead, mercury, cadmium, and hexavalent chromium in products, ensuring both safety and regulatory compliance.



● Medical Devices

In the medical device sector, handheld RoHS analyzers also play a critical role. The materials and components of medical devices must comply with stringent standards and regulations to ensure they do not pose risks to patients or healthcare professionals during use. Through quantitative detection of hazardous substance levels in medical devices, manufacturers can verify compliance with essential safety requirements and regulatory frameworks.



Sample	Cd	Cr	Hg	Pb	Br
ABS-1	36.6	380	373	378	376
ABS-2	107	1122	1096	1122	1116

Unit: PPM

PI-HLD900 Test Data for ABS Plastic Toys

● Material Compliance Testing

Beyond the aforementioned sectors, handheld RoHS analyzers find critical applications in testing materials such as plastics, coatings, and packaging. These materials may contain hazardous substances during manufacturing and throughout their service life, necessitating periodic screening to verify environmental compliance and product safety.

Specifications

Model	PI-HLD900
Excitation	Ceramic packaged microfocus X-ray tube, Ag Anode 50kV
Detector	Optimized SDD detector (with Graphene window)
Resolution	<122eV FWHM
Filter	Multi position automatic filter changer
Window	Kapton with anti-puncture window design optional
Battery	7.2V Li-ion battery, 6800mAh
Display	Capacitive touch screen (5 inch 720P)
CPU	i.MX 8M Mini quad core 1.8GHz
Signal Processor	4096-pixel multi-channel detector/80 MHz ADC digital signal processor
Data Storage	Over 100,000 data storage,32GB
Data transfer	WiFi、USB
Structure design	Unique TERUNI structure design, effectively increase the heat dissipation of the X ray tube
Radiation safety	Safety Guard induction device, when there is no sample in the test area, the source will shut, providing maximum safety protection. Password-protected user security
Camera (optional)	Integrated CCD camera with autofocus lens for positioning and recording measuring point positions
Elements	Mg (No.12) ~U (No.92)
Environment	Temp: -10°C~50°C Humidity 0%~80%
Weight	Approx. 1.5kg (3.3lbs) including battery
Dimensions	L x W x H: 220mm*91mm*276mm
Optional	With the innovatively designed Precision Integrate mobile application, data can be viewed, shared, and printed in real time, and functions such as sample photo, GPS positioning, barcode scanning, and data archiving can be supported. Optional data cloud service function support uploading the test results to a secure and encrypted cloud server, and perform efficient statistics, query and analysis of large-scale analysis data.



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