# TrueX Universal XRF Analyzer

TrueX 980 is a powerful handheld XRF device recently launched by our company. It has the advantages of rapid detection, ruggedities and small and convenient. Can help users in the field environment comparable to the laboratory analysis results. It is widely used in waste recycling, environmental assessment, RoHS compliance, consumer product safety, metal materials, metal jewelry and other fields.

## Application range

**Metal material**
For field, nondestructive, rapid and effective analysis and detection of alloy elements and alloy grade identification
Metal identification/scrap metal sorting
QA/QC management of metal production, processing and manufacturing casting
Medicine and biomedical science
Identification of anode materials for petroleum refining and petrochemical industries
Thermal power plant, hydroelectric power plant, nuclear power plant
Conduct effective component analysis and PMI identification of raw material elements to meet production requirements and ensure the material safety of process equipment

**Precious metal**
Quality inspection of supplied materials, process abrasive, recycled materials and finished products
Detection of components of bank precious metal/gold products recycling
Inspection of finished products in gold stores and inspection of components of recycling jewelry
An appraisal of the value of precious metals and jewelry in a pawn shop
Gold and silver precious metals testing laboratory and college teaching

**soil heavy metal**
The eight metals specified in THE RCRA (less than 10ppm) and the contaminant metals required for priority detection were measured
General regulatory analysis of Mg, Al, Si, P, S and other light elements that external users need to know
Heavy metal elements in water (such as industrial and municipal wastewater), including lead, arsenic, cadmium, zinc and other as many as dozens of elements
Sudden environmental pollution accident judgment, regional pollution monitoring

**RoHS consumer products**
Restricted toxic elements in consumer goods;
Component analysis and grade identification of metal parts/fasteners;
Chlorine and bromine in polymer materials and plastics;
Cadmium, lead and mercury in packaging materials;
Cadmium, lead, bromine, mercury, chromium and other elements in electronic components, connectors and cables;
Solder - content of tin, lead, copper, silver, bismuth, cadmium and other elements in raw material state and different use stages;

**Geology and mineral exploration**
Rapid measurements of soil and outcrops to identify potential drilling targets
Direct screening of core and rock dandruff
From common metals and gold to ore and platinum group elements
Ore samples such as soil, sediment, rock debris, bagged drilling cuttings and cut cores
A liquid substance containing a sample of high acid content

## Technical parameters and specifications

| | |
|---|---|
| Weight | 1.6Kg(with battery) |
| Size | 254 x 79 x 280 mm(L x W x H) |
| Excitation source | Up to 50KV/200μA, Pressure and flow can be adjusted freely, W/Ag/Rh target (optional) |
| Detector | Si-Pin |
| Detection range | Mg-U |
| Display | Industrial resistive touch screen<br>Special operating system and LANScientific analysis software<br>The operating languages include Chinese, English and many other languages<br>Automatically adjust the brightness of the display according to the brightness of the external environment |
| Data processing | Built-in 32GB storage.<br>USB, Bluetooth, WIFI, the device can be connected to the Internet, remote setting and maintenance of the instrument are available.<br>Data can be output in EXCEL and PDF format, and users can customize and create professional reports, including company logo, company address, test results, spectral spectrum and other sample information (such as product description, origin, batch number, etc.) |
| Heat dissipation | The instrument is equipped with special T-groove heat dissipation device, which improves the heat dissipation performance of the instrument and eliminates the need to frequently wait for the detector to cool down |
| Security | Built-in DoubleBeam™ technology automatically detects whether there are samples in front of it, increasing the safety and protection level of radiation<br>Waterproof, dustproof and shockproof suitcase<br>LANScientific special safety rope |
| Power supply system | With MSBUS intelligent battery, real-time monitoring battery, standby battery can directly view the remaining battery capacity, the battery complies with the regulation of transport of Dangerous goods by air<br>A single battery lasts about 8 hours |

## Product detail

The instrument is smaller in size, lighter in weight and convenient to carry;
High-speed processing chips, advanced algorithms and efficient software combine to make instrument analysis faster
Using imported high-performance X-ray emitting tubes and high-resolution detectors, combined with digital multichannel processing technology, the TrueX 880s has high analysis accuracy.
TrueX radiation indicator lights on the left and right side automatically breathe during measurement, and built-in DoubleBeam™ technology automatically detects whether there is a sample in front of the device to improve radiation safety and protection levels.
Industrial resistive touch screen has better backlight performance than capacitive screen. It can still be clearly seen under strong light in the field, and at the same time, it avoids the danger of removing gloves in special environment in the field.
Airframe adopt slippery wear-resisting streamline design, very light, easy to carry and transport, and integration of the LANScientific's scientific research innovation, including: a new high speed digital multi-channel technology, new brand identification system of library, Super - FP algorithm, makes TrueX handheld analyzer to measure not only faster and higher measurement accuracy, measurement consistency is stronger
You can view the remaining battery capacity of intelligent batteries, real-time monitoring batteries, and standby batteries with MSBUS. The instrument supports hot swap of the instrument battery, which can be replaced in the working state without shutting down.
When the instrument is standby, pick up to recovery, reduce the power consumption of the instrument, prolong the instrument working time; In addition, TrueX's gravity sensing capabilities enable the hand-held analyzer to automatically shut down in the event of an accidental drop, providing safety and alarm when temperature and humidity are out of range.
Users can customize and create professional reports, including company logo, company address, test results, spectrogram and other sample information (such as product description, origin, batch number, etc.).
The equipment can be connected to the Internet, equipment can be set up and maintenance remotely.

Combined with the built-in GPS longitude and latitude data and altitude data, the element content geographic three-dimensional distribution map can be constructed by importing the third-party GIS analysis software, and the environmental disaster area can be quickly assessed.

A new net intensity fitting algorithm built into the TrueX handheld analyzer optimizes the spectrum parsing process, giving the TrueX handheld analyzer an extremely low detection limit that is comparable to large laboratory equipment.
TrueX's built-in Ultrashort™ light path design significantly improves the excitation effect of light elements Mg, Al, Si, S and P.
Built-in all-directional environment sensing system. TrueX can sense changes in the surrounding environment in real time and automatically adjust parameters for accurate elemental analysis under extreme conditions such as high temperature, dust, dark and wet.

## Related video

## Related products

TrueX 980S Universal Analyzer

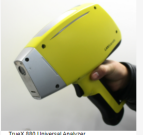
As one of the precision element analysis instruments,...

Know more
MORE

TrueX 880S Universal Analyzer

Product introductionTrueX 880S is a powerful handheld...

Know more
MORE



TrueX 880 Universal Analyzer

Product introductionXRF is one of the most important ...

Know more
MORE